

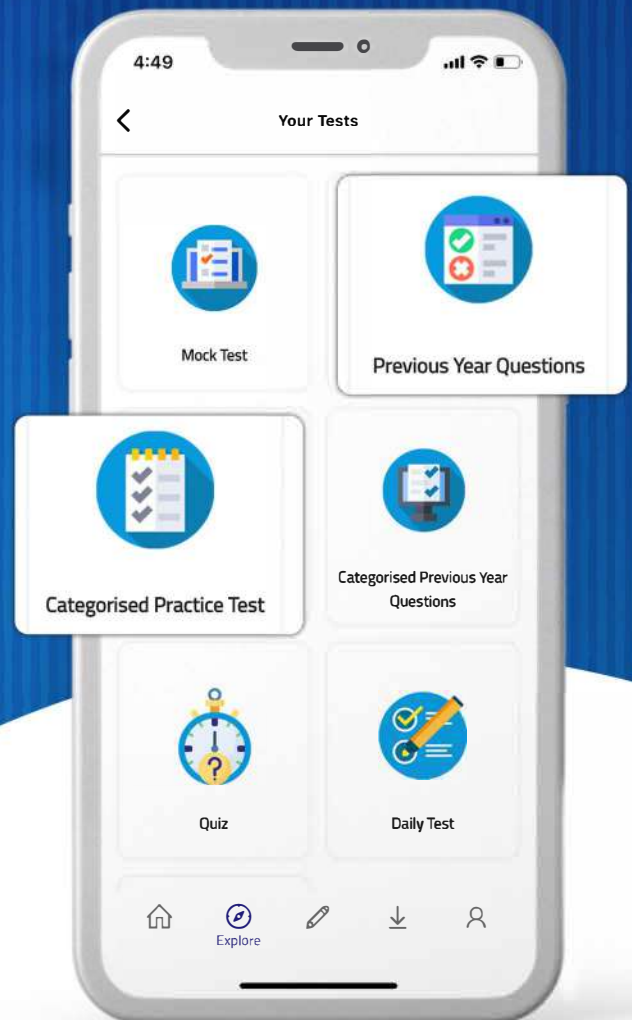


# **UGC NTA NET** **PAPER I** **PREVIOUS YEAR SOLVED PAPERS**

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If you are preparing for any kind of competitive examination, then going through the previous year question papers is one of the fundamental steps you need to take. This book is exclusively for those who are preparing for the UGC NET Examination.

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This book is a compilation of different question papers from various sources including the website of UGC NET. We kindly inform you that, we don't hold any responsibility for any mistakes in Answer keys, as the official key is released by UGC. Even though we have tried our level best to avoid all the mistakes and give you the correct keys, there is a chance for humanly error.

We are always happy to hear from you, if there any kind of mistakes or alternate opinions. We will recheck and will update as soon as we find any errors. If you find any error, please contact us on 8714159300

We wish to extend our sincere gratitude to everyone who contributed towards this effort.

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**20-09-2022 ARB\_ FN**

Consider the following table that presents the details about the percentage distribution of household expenditure of a family on various budget heads during the years 2020 and 2021. The total income of the family in the years 2020 and 2021 was ₹ 50000 and ₹ 75000, respectively. Based on the data in the table, answer the five questions that follow:

Budget Head wise Distribution of Expenditure

Year→ Budget Head ↓	2020	2021
Entertainment	11%	9%
Health	5%	6%
Clothing	25%	25%
Food	19%	21%
Travel	34%	24%
Others	6%	15%

- What is the ratio of total amount spent on Travel by the family in 2020 to that in 2021?  
(A) 16:17  
(B) 18:17  
(C) 17:18  
(D) 17:16
- What is the increase in the amount of money spent on the health budget head from 2020 to 2021?  
(A) ₹ 1500  
(B) ₹ 2000  
(C) ₹ 2500  
(D) ₹ 1750
- What is the difference in the amount of money spent on Entertainment and Food together during the years 2020 and 2021?  
(A) ₹ 6500  
(B) ₹ 7000  
(C) ₹ 7500  
(D) ₹ 8000
- For which of the following budget heads did the family spend more amount of money in 2021 than they spent in 2020?  
(a) Health  
(b) Clothing  
(c) Travel

Choose the correct answers from options given below:

- (a) only
  - (b) only
  - (a) and (b) only
  - (a), (b) and (c)
- What was the total amount spent on food in 2020?  
(A) ₹ 9000



- (B) ₹ 9500  
(C) ₹ 10000  
(D) ₹ 10500

6. Match List I with List II:

List I (Computer Term)	List II (Hardware/Software)
(a) System Software	(I) Keyboard
(b) Input Device	(II) Pen Drive
(c) Output Device	(III) Linux
(d) Secondary Storage Device	(IV) Printer

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(I), (c)-(III), (d)-(II)  
(B) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)  
(C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
(D) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)

7. Match List I with List II:

List I (Type of Communication)	List II (Example)
(a) Intra-personal	(I) Face-to-face
(b) Group communication	(II) Satellite television
(c) Transactional	(III) Meditation
(d) Massive	(IV) Board meeting

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(III), (c)-(IV), (d)-(II)  
(B) (a)-(II), (b)-(IV), (c)-(III), (d)-(I)  
(C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
(D) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)

8. By how much above the cost should the goods be marked for sale, so that after allowing a trade discount of 20% and a cash discount of  $6\frac{1}{4}\%$ , a net gain of 20% on the cost is made?

- (A) 60% above the cost  
(B) 40% above the cost  
(C) 50% above the cost  
(D) 55% above the cost

9. According to the UGC (Credit Framework for Online Learning Courses through SWAYAM), 2021, up to what percentage of total course credits in a particular programme in a semester can be offered through online courses?

- (A) 25%  
(B) 40%  
(C) 50%  
(D) 45%

10. Find the wrong term in the series given below:

15, 16, 22, 29, 45, 70, .....

- (A) 22
- (B) 70
- (C) 29
- (D) 16

11. Arrange the following computer memory types from the slowest to the fastest speed:

- (a) Main memory (RAM)
- (b) L2 Cache
- (c) Hard Disk
- (d) L1 Cache
- (e) CD-ROM

Choose the correct answer from the options given below:

- (A) (e), (c), (a), (b), (d)
- (B) (e), (c), (a), (d), (b)
- (C) (b), (d), (a), (c), (e)
- (D) (c), (e), (b), (a), (d)

12. Given below are two statements:

Statement (I): In communication, language Involves different degrees of Identification for generalisation.

Statement (II): Abstraction is described as a process of leaving out details and for effective communication, an awareness of the details left out is necessary.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

13. If the letters in word 'POWERFUL' are rearranged as they appear in the order of English alphabet, then position of how many letters will remain unchanged?

- (A) One
- (B) Two
- (C) Three
- (D) More than three

14. Given below are two statements:

Statement (I): Codes of ethics are formulated to regulate the relations of researchers to the people and fields they Intend to study.

Statement (II): All the risks involved in the study need not be explained to the participants in advance.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

15. Which of the following statements are true about the International Solar Alliance?

- (a) It was founded in 2012.
- (b) India is one of the founding countries.
- (c) Its headquarters are in Geneva.
- (d) It was signed by over 100 countries.
- (e) Mostly sunshine countries are members of this alliance.

Choose the correct answer from the options given below:

- (A) (a), (c) and (d) only
- (B) (a), (d) and (e) only
- (C) (b), (c) and (d) only
- (D) (b), (d) and (e) only

16. Consider the following incomplete sentences about printers:

A laser printer is a type of \_\_\_\_\_ printer. It produces \_\_\_\_\_ quality printouts and uses \_\_\_\_\_ to print onto paper. A \_\_\_\_\_ printer can produce carbon copies because the print head makes contact with the paper.

Identify the correct order to fill in the blank spaces using words from the list below (a - d)

- (a) High
- (b) Dot Matrix
- (c) Non-Impact
- (d) Toner

Choose the correct answer from the options given below:

- (A) (b), (a), (d), (c)
- (B) (c), (d), (a), (b)
- (C) (a), (b), (c), (d)
- (D) (c), (a), (d), (b)

17. Given below are two statements:

Statement (I): Pitroda Commission recommended setting up 1500 universities in India to avoid stagnation in Higher Education.

Statement (II): To address the problem of low enrolment in higher education in India, Indira Gandhi National Open Universities was set up in 1975.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

18. Given below are two statements:

Statement (I): Dioxins are chlorinated compounds.

Statement (II): Dioxins cause deaths of birds and other stray animals due to their widespread use as herbicides and pesticides.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

19. According to classical Indian thinkers, in which of the following means of knowledge, we accept a fact or principle for explaining an undeniable fact, which otherwise cannot be explained?
- (A) Non-Cognition (Anupalabdhi)
  - (B) Comparison (Upamāna)
  - (C) Verbal Testimony (Śabda)
  - (D) Postulation (Arthāpatti)
20. The disadvantages of Aristotle's model of communication are:
- (a) Weak encoding
  - (b) Audience created content
  - (c) One-way communication
  - (d) Stress on the speaker
  - (e) Ignorance of noise

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (a), (d) and (e) only
- (D) (c), (d) and (e) only

21. What are OERs?

- (A) Open Educational Resources
- (B) Open Examination Resources
- (C) Online e-learning Resources
- (D) Online Educational Resources

22. Who is the Chairperson of the Executive Council in a Government University?

- (A) Vice Chancellor
- (B) Visitor's nominee
- (C) Chancellor
- (D) Secretary Higher Education Department

23. A 20 dB increase in noise level represents an enhancement in Intensity of sound by a factor of

- (A) 2
- (B) 5
- (C) 100
- (D) 20

24. Given below are two statements:

Statement (I): The panel design influences the statistical analysis in research.

Statement (II): The panel design does not suffer from the issue of mortality.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.



- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

25. According to the stimulus-response model, all communication is a/an \_\_\_\_\_ process.
- (A) Collective
  - (B) Individual
  - (C) Impersonal
  - (D) Massive
26. An Informal fallacy in which one moves carelessly from Individual cases of a given class of persons or things to all the members of that class is called:
- (a) Fallacy of Division
  - (b) Fallacy of Converse accident
  - (c) Fallacy of Slippery Slope
  - (d) Fallacy of Accident
  - (e) Hasty generalisation

Choose the correct answer from the options given below:

- (A) (b) and (e) only
- (B) (c) only
- (C) (e) only
- (D) (c) and (e) only

27. With reference to intake of Indian students, an Institution of Eminence can admit foreign students additionally, up to the extent of
- (A) 20%
  - (B) 25%
  - (C) 30%
  - (D) 35%

28. Given below are two statements:

Statement (I): According to Classical Indian School of Logic, proof of a statement is given with the help of a syllogism.

Statement (II): According to Classical Indian School of Logic, the thesis has to be mentioned thrice as a hypothesis, second as an example and third as a conclusion.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

29. Which of the following are VALID reasons for 'Literature Review' in research?

- (a) It shows the present status of knowledge in the field of research so that the significance of the proposed research question is clear.
- (b) It gives a correct context to the scope of the work proposed in the thesis.
- (c) It demonstrates the scholarliness of the thesis writer
- (d) It fills the minimum page requirement for a thesis.

Choose the correct answer from the options given below:

- (A) (a) and (b) only

- (B) (c) and (d) only
- (C) (a) and (c) only
- (D) (b) and (d) only

30. 'Joint Implementation' was one of the mechanisms suggested in meeting the objectives of
- (A) Agenda 21
  - (B) Montreal Protocol
  - (C) Kyoto Protocol
  - (D) Paris Agreement
31. In classical square of opposition, if 'No S is P' is given as true, then which of the following could be immediately inferred from it?
- (a) 'Some S is P' is undetermined
  - (b) 'All S is P' is false
  - (c) 'Some S is not P' is undetermined
  - (d) 'Some S is P' is false
  - (e) 'Some S is not P' is true

Choose the correct answer from the options given below:

- (A) (a), (b) and (e) only
- (B) (b), (c) and (d) only
- (C) (b), (d) and (e) only
- (D) (a), (b) and (d) only

32. Given below are two statements:

Statement (I): Mediated communication flourishes in a free and democratic environment.

Statement (II): Power distortions always affect the flow of communication, whatever may be the political system.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

33. Which of the following is INCORRECT regarding CBCS?

- (A) CBCS is a framework to provide choices for electives and optional to students.
- (B) CBCS can be implemented only through online programme
- (C) MOOCs can be used to provide choices for CBCS by institutions
- (D) Generic Electives and skill enhancement courses are provided under CBCS framework

34. Value education is about promoting

- (a) equality and social justice
- (b) national cohesion and democratic citizenship
- (c) rich cultural and spiritual heritage
- (d) religious practices and beliefs
- (e) sound moral and ethical principles

Choose the correct answer from the options given below:

- (A) (b), (c), (d) and (e) only
- (B) (a), (b), (c) and (e) only
- (C) (c), (d) and (e) only
- (D) (a), (b) and (e) only

35. A man has to cover a total distance of 24 km. He observed that after walking for one hour and 40 minutes, the distance covered by him is  $\frac{5}{7}$  of the remaining distance. What was the speed of the man in km/hr?

- (A) 7
- (B) 5
- (C) 6
- (D) 8

36. Which of the following need to be inculcated for developing 21<sup>st</sup> century skills of students by a teacher?

- (a) Creativity
- (b) Rote-learning
- (c) Critical thinking
- (d) Life-long learning
- (e) Learning only for examination

Choose the correct answer from the options given below:

- (A) (a) and (c) only
- (B) (b) and (e) only
- (C) (a), (c) and (d) only
- (D) (a), (c) and (e) only

37. Given below are two statements:

Statement (I): Analogical argument is a type of inductive argument.

Statement (II): In an analogical argument, it is concluded that two entities alike in some respects, are therefore alike in some other respect.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

38. LMS is a software application used for the

- (A) Administration, documentation, tracking, reporting and delivery of educational courses
- (B) Authentication, documentation, transfer, reporting and designing of educational courses
- (C) Administration, documentation and depository of e-resources
- (D) Authentication, reporting, analysis and depository of e-resources

39. An earthquake in magnitude on the Richter scale in the range 7-7.3, is termed as

- (A) destructive
- (B) ruinous
- (C) disastrous
- (D) catastrophic

40. Given below are two statements:

Statement (I): For a small number of samples, the sampling distribution of means is approximately, a normal distribution.

Statement (II): In case the population is normally distributed, the sampling distribution of means is also normally distributed, even for a small number of samples.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

41. If  $\frac{1}{3.718} = 0.2689$ , then find the value of  $\frac{1}{0.0003718}$

- (A) 0.02689
- (B) 2689
- (C) 26.89
- (D) 268.9

42. Which of the following are true in the case of participatory observation method?

- (a) The apparently obvious incidents can be overlooked.
- (b) It is a good method to study the daily operations of organisations.
- (c) The decision-making process can be observed.
- (d) With this method, an organisation's social meaning can be studied.
- (e) One can pretend to be a natural member of the group.

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (b) and (e) only

43. A movie requires 16 gigabytes of storage. How long will it take to download this movie, if the download speed is 64 megabytes per second? (1KB=1024 Bytes)

- (A) 64 seconds
- (B) 128 seconds
- (C) 256 seconds
- (D) 512 seconds

44. With respect to telecommunications, which of the following forms of communication are synchronous?

- (a) Email
- (b) Instagram posts
- (c) Blogging
- (d) Telephone calls
- (e) Instant Messaging

Choose the correct answer from the options given below:



- (A) (a), (b) and (c) only
- (B) (d) and (e) only
- (C) (a), (b), (d) and (e) only
- (D) (a), (b), (c), (d) and (e)

45. Why should a student not be punished severely?

- (A) He/she may leave the institution and join another.
- (B) He/she may quarrel with the teacher.
- (C) Parents of students may complain about the teacher.
- (D) The student may develop a negative attitude towards his/her studies, teachers and institution.

Read the following passage and answer the five questions that follow:

According to the World Health Organisation (WHO), air pollution is now comparable to other global health risks like unhealthy diets and smoking tobacco. It is recognised "as the single biggest environmental threat to human health". WHO guidelines, which are not legally binding and intended as a reference for policymakers, advocacy groups and academics, stipulate permissible concentrations of six pollutants known to have impacts on health: two types of particulate matter known as PM<sub>2.5</sub> and PM<sub>10</sub>, as well as Ozone, Nitrogen dioxide, Sulphur dioxide and Carbon monoxide. The guidelines could also send a message to the wider public about lifestyle and business choices - whether it is driving cars and trucks, disposing of garbage, working in industrial jobs or farming. WHO says the main human generated sources of air pollution can vary geographically but include the energy and transportation sectors, as well as waste dumpsites and home cooking and heating. It advised people to do their part by changing their lifestyles - not running car engines uselessly; avoiding use of plastics that could end up being incinerated; and walking, riding bikes or using public transportation to get to work.

It should be noted that "because of air pollution, the simple act of breathing contributes to 7 million deaths a year. Almost everyone around the world is exposed to unhealthy levels of air pollution". The harmful health effects of air pollution kick in at lower levels than previously thought, the World Health Organisation has said as it has set a new standard for policymakers and the public in the first update of its air quality guidelines in 15 years. Since the last update of the WHO recommendations, better monitoring and science have cleared up the global picture about the effects of six major air pollutants on human health. According to the agency, 90% of the world's people already live in areas with at least one particularly harmful type of pollutant.

46. Why are the WHO guidelines on air pollution not binding on member states?

- (A) Not all countries are WHO members.
- (B) Air pollution is still not a serious problem.
- (C) Guidelines do not have legal sanctity
- (D) The guidelines lack scientific validation.

47. The measure adopted by the WHO to limit the air pollution is:

- (A) Present a global picture of air pollution
- (B) Take a serious view of air pollution
- (C) Initiation of innovative practices
- (D) Setting a new standard of air quality in its updated guidelines

48. The WHO advice to the public is:

- (A) Identify the sources of air pollution

- (B) Change lifestyles
- (C) Stay indoor as much as possible
- (D) Incinerate plastic waste

49. The major inference to be drawn from the passage is:

- (A) Do not ignore the harmful health effects of air pollution.
- (B) People should change their business practices.
- (C) Policy makers can mitigate air pollution by their initiatives.
- (D) The WHO has updated its air quality guidelines often.

50. What is the WHO reference for policy makers?

- (A) Reduce the ozone level
- (B) Promote advocacy groups
- (C) Threshold concentration of identified pollutants
- (D) Focus on all types of health risks



### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	C	26	A
2	B	27	C
3	C	28	C
4	D	29	A
5	B	30	C
6	D	31	C
7	C	32	A
8	A	33	B
9	B	34	B
10	A	35	C
11	A	36	C
12	A	37	A
13	A	38	A
14	C	39	C
15	D	40	D
16	D	41	B
17	C	42	B
18	A	43	C
19	D	44	B
20	D	45	D
21	A	46	C
22	A	47	D
23	C	48	B
24	C	49	A
25	B	50	C

**29-09-2022 COM\_ FN**

Based on the data in the table, answer the five questions that follow:

The following table gives the sale figures of five different types of batteries (in thousands) sold by a company during the years 2015 to 2021.

Year-wise Sale of Batteries

Year	Types Of Batteries Sold (in thousands)				
	4AH	7AH	32AH	35AH	55AH
2015	75	144	114	102	108
2016	90	126	102	84	126
2017	96	114	75	105	135
2018	105	90	150	90	75
2019	90	75	135	75	90
2020	105	60	165	45	120
2021	115	85	160	100	145

- What is difference in the number of 35AH batteries sold in 2016 and 2020?  
(A) 24000  
(B) 28000  
(C) 35000  
(D) 39000
- What was the approximate percentage increase in the sales of 55AH batteries in 2021 compared to that in 2015?  
(A) 28%  
(B) 31%  
(C) 33%  
(D) 34%
- In case of which type of battery there was a continuous decrease in sales from 2015 to 2020?  
(A) 4AH  
(B) 7AH  
(C) 32AH  
(D) 35AH
- The percentage of 4AH batteries sold in a given year to the total number of batteries sold in that same year was maximum in the year:  
(A) 2017  
(B) 2018  
(C) 2019  
(D) 2020
- The total sales of all the seven years is maximum for which type of battery?  
(A) 4AH  
(B) 7AH  
(C) 32AH  
(D) 35AH



6. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): According to Classical Indian School of Logic (Nyaya), it is desirable but not necessary to offer an example in a syllogistic argument or inference.

Reason (R): Example shows that there is at least one existent object or case in the world in which the middle and major terms co-exist.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
  - (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
  - (C) (A) is correct but (R) is not correct.
  - (D) (A) is not correct but (R) is correct.
7. Which of the following universities is an Institute of Eminence?
- (A) Central University of Gujarat, Gandhinagar
  - (B) University of Hyderabad
  - (C) Tezpur University
  - (D) Jamia Millia Islamia
8. In Classical Square of Opposition, if 'Some S is P' is given as true then which of the following could be immediately inferred from it?
- (a) 'Some S is not P' is false
  - (b) 'Some S is not P' is true
  - (c) 'No S is P' is false
  - (d) 'All S is P' is undetermined
  - (e) 'Some S is not P' is undetermined

Choose the correct answer from the options given below:

- (A) (a), (c) and (d) only
  - (B) (c), (d) and (e) only
  - (C) (b), (c) and (d) only
  - (D) (b) and (c) only
9. The advantages of research based on field experiments are:
- (a) A strong external validity
  - (b) Subjects behave normally and naturally.
  - (c) The experiment takes place in a natural setting.
  - (d) Generation of primary data
  - (e) Non-requirement of elaborate logistics

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (c) and (e) only

10. Match List I with List II:

List I (Concept of presentation)	List II (Characteristic)
(a) Text	(I) Order of signification
(b) Discourse	(II) Subjective invention
(c) Connotation	(III) Micro data
(d) Myth	(IV) Macro exchange

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)  
 (B) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)  
 (C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
 (D) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)
11. Upon completion of academic programmes (Graduation), what outcomes should the students have attained?  
 (A) Programme Education Objectives/ Programme outcomes  
 (B) Lesson outcomes  
 (C) Course outcomes  
 (D) Unit/Chapter outcomes
12. An American is told by his friend that Asian buffalo is like bison in such and such respects. When the American visits Asia and comes across a buffalo, he comes to know that the animal seen by him is buffalo. Which of the following means of knowledge (pramāṇa) is used in this instance?  
 (A) Postulation (Arthāpatti)  
 (B) Comparison (Upamāna)  
 (C) Perception (Pratyakṣa)  
 (D) Verbal Testimony (Śabda)
13. Six persons went to a hotel for a dinner, Five of them spent Rs 150 each on their meals, while the sixth person spent Rs 80 more than the average expenditure of all the six persons. What is the total money spent by all the six persons?  
 (A) 996  
 (B) 999  
 (C) 1000  
 (D) 1001
14. In order to develop a video for MOOC, how much portion of some copyrighted video is allowed to be used as per the fair use guidelines?  
 (A) Up to 10% or 10 minutes, whichever is less.  
 (B) Up to 10% or 3 minutes, whichever is less.  
 (C) Up to 20% or 10 minutes, whichever is less.  
 (D) Up to 30% or 3 minutes, whichever is less
15. A Company's word-processed daily report contains a graph from a spreadsheet. The report needs to display the most recent information from the spreadsheet. What feature should be used to insert the most up-to-date graph?  
 (A) Copy and paste  
 (B) Mail merge wizard

- (C) Automated importing
- (D) Linking and embedding

16. Which of the following model is used for development of e-content for MOOCs on SWAYAM?

- (A) Four Quadrant
- (B) Two Quadrant
- (C) Flipped Classroom
- (D) Bloom's Taxonomy

17. According to Noise Pollution (Regulation and Control) Rules in India, noise ( $LL_{eee}$ ) in educational institutions during night time (10pm-6am) must not exceed

- (A) 35 dB
- (B) 40 dB
- (C) 45 dB
- (D) 50 dB

18. A fallacy in which the conclusion is stated or assumed within one of the premises is known severally as:

- (a) *Petitio Principii*
- (b) Irrelevant Conclusion
- (c) Begging the Question
- (d) Fallacy of Composition
- (e) Circular argument

Choose the correct answer from the options given below:

- (A) (a), (d) and (e) only
- (B) (c) and (d) only
- (C) (b), (c) and (e) only
- (D) (a), (c) and (e) only

19. What is the correct chronological order of sequence from older to newer of the following agreement, summit and protocols?

- (a) Paris Agreement
- (b) Montreal Protocol
- (c) Kyoto Protocol
- (d) Rio Summit

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d)
- (B) (b), (d), (c), (a)
- (C) (a), (c), (d), (b)
- (D) (b), (c), (d), (a)

20. Environmental education encompasses the issues of

- (a) Resource Consumption
- (b) Environmental degradation
- (c) Biodiversity loss
- (d) Economic empowerment
- (e) Climate change and its impact

Choose the correct answer from the options given below:

- (A) (a), (b), (c) and (d) only
- (B) (a), (b), (c) and (e) only
- (C) (b), (c), (d) and (e) only
- (D) (b) and (e) only

21. Which of the following peripheral devices are considered as only input devices?

- (a) Microphone
- (b) Projector
- (c) Joy Stick
- (d) Scanner
- (e) Track-ball

Choose the correct answer from the options given below:

- (A) (a), (c), (d) and (e) only
- (B) (a), (b), (d) and (e) only
- (C) (b), (c), (d) and (e) only
- (D) (a), (b), (c) and (d) only

22. Hypothesis, that is alternative to null hypothesis, is represented as

- (A)  $H_{00}$
- (B)  $H_1$
- (C)  $H_{alt}$
- (D)  $H_{\neq 0}$

23. Unscramble the strings below to create a meaningful word and then find the odd one out:

- (a) EIWNTR
- (b) UMRSM E
- (c) PIGRSN
- (d) LCUOD

Choose the correct answer from the options given below:

- (A) (a) only
- (B) (b) only
- (C) (c) only
- (D) (d) only

24. Which type of virus or destructive software could appear to be useful, but will actually cause damage once installed or run by a user?

- (A) Hoax
- (B) Worm
- (C) Trojan Horse
- (D) System Sector

25. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Static RAM is typically used for PC's main memory while Dynamic RAM is used for CPU cache

Reason (R): Static RAM is faster and more expensive than Dynamic RAM.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

26. Which of the following are barriers to understand the communicated messages?
- (a) Emotional quotient
  - (b) Jargon
  - (c) Personal space
  - (d) Pre-judgement
  - (e) Cultural background

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
  - (B) (b), (d) and (e) only
  - (C) (c), (d) and (e) only
  - (D) (b), (c) and (d) only
27. What is SCOPUS?
- (A) Software to prepare Ph.D thesis
  - (B) Database containing abstracts and citations of academic journals
  - (C) Agency to fund research and development
  - (D) Plagiarism checking software
28. The Social Science research which is data-based, has been associated with
- (A) Authoritarian mode
  - (B) Positivist philosophy
  - (C) Network theory
  - (D) Phenomenology
29. When the subjects of a research change or improve their behaviour, not due to changes in experimental stimulus, it is called
- (A) The Hawthorne effects
  - (B) The Glenn effects
  - (C) The Fischer effects
  - (D) The Kerlinger effect
30. The selling price of 30 fans is equal to the purchase price of 25 fans. What is the profit or loss in percentage?
- (A) A gain of  $16\frac{20}{3}\%$
  - (B) A loss of 15%
  - (C) A loss of  $16\frac{20}{3}\%$
  - (D) No gain, no loss
31. In a state government university or Central University, recommendation of the Selection Committee for the recruitment of the faculty is approved by the
- (A) Academic Council
  - (B) Executive Council

- (C) Finance Committee
- (D) Chancellor of University

32. The modern communication revolution is propelled by
- (A) Cold war propaganda
  - (B) International commerce
  - (C) Technological convergence
  - (D) Change in political systems

33. Effective classroom communication will enable
- (a) Efficient teaching
  - (b) Interest in learning
  - (c) Minimal assessment
  - (d) Interaction between teachers and students
  - (e) Teacher-centric behaviour

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c), (d) and (e) only
- (C) (c), (d) and (e) only
- (D) (a), (b) and (d) only

34. Which scheme of Ministry of Education, Government of India, uses Artificial Intelligence to make learning more personalised and customised, as per requirements of the learners?
- (A) NEAT
  - (B) NEET
  - (C) SWAYAM
  - (D) SWAYAM PRABHA

35. Given below are two statements:

Statement (I): Knowledge is a form of cultural capital for all practical purposes.

Statement (II): Communication media make cultural capital a form of illimitable property.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

36. What shall be the value when 0.07 is divided by 350?
- (A) 0.0002
  - (B) 0.002
  - (C) 0.02
  - (D) 0.00002

37. The percentage increase in carbon dioxide concentration in atmosphere from pre-industrial times is approximately
- (A) 55%
  - (B) 50%



- (C) 74%
- (D) 62%

38. Analogical Argument are:

- (A) Deductive in nature
- (B) Inductive in nature
- (C) Valid arguments but fallacious
- (D) Invalid argument

39. Given below are two statements:

Statement (I): The recommendations of the Radhakrishnan Commission in 1949 resemble those of Calcutta University Commission in 1917.

Statement (II): The recommendations of the Mudaliar Commission in 1953 resemble those of John Sergent's post-war Educational Development Plan in 1944.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

40. The highest nonzero dose at which no toxic effect is observed in a study on animals is called

- (A) LD<sub>50</sub>
- (B) NOAEL
- (C) LOAEL
- (D) NOEFF

41. Choose the set of numbers, similar to the set (31, 19, 41) out of the following:

- (a) (27, 29, 47)
- (b) (23, 34, 49)
- (c) (29, 16, 41)
- (d) (29, 17, 37)
- (e) (23, 37, 49)

Choose the correct answer from the options given below:

- (A) (a), (c) and (e) only
- (B) (a) and (b) only
- (C) (b) and (d) only
- (D) (d) only

42. Given below are two statements:

Statement (I): With Academic Bank of Credit facility in place, a student will be able to customize and design own degree, provided 50% of credit are from the higher education institutions awarding the degree.

Statement (II): Credits once used or redeemed by a student cannot be used for any other formal purpose or course wavers.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

43. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R)

Assertion (A): Teachers must encourage students to ask questions.

Reason (R): Asking questions can create curiosity and develop passion for learning.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

44. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): Hybrid Electric Vehicles' (HEVs) fuel running cost is lesser than Electric Vehicles (EVs).

Reason (R): Hybrid Electric Vehicles have both an internal combustion engine and an onboard electric power generation system.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

45. With respect to the computers, what is the purpose of compressing a data file?

- (A) To encrypt the data
- (B) To occupy less storage space
- (C) To increase transmission time over a network
- (D) To allow the file to be read by a variety of applications

Read the given passage and answer the questions that follow:

Human beings are not completely free to socially construct their own behaviour. They have a shared biological nature. The nature is remarkably uniform throughout the world, given the fact that most contemporary humans outside of Africa descended from a single relatively small group of individuals some fifty thousand years ago. This shared nature does not determine political behaviour, but it frames and limits the nature of institutions that are possible. It also means that human politics is subject to certain recurring patterns of behaviour across time and across cultures. This shared nature can be described in certain propositions like that the human beings never existed in a pre-social state.

The idea that human beings at one time existed as isolated individuals, who interacted either through anarchic violence (Hobbes) or in pacific ignorance of one another (Rousseau), is not correct. Human beings as well as their primate ancestors always lived in kin-based social groups of varying sizes.

Indeed, they lived in these social units for a sufficiently long period of time that the cognitive and emotional faculties needed to promote social cooperation evolved and became hardwired in their genetic endowments. This means that a rational-choice model of collective action, in which individuals calculate that they will be better off by cooperating with one another, vastly understates the degree of social cooperation that exists in human societies and misunderstands the motives that underlie it.

The next one is the idea of natural human sociability. This is built around two principles, kin selection and reciprocal altruism. The principle of kin selection or inclusive fitness states that human beings will act altruistically toward genetic relatives (or individuals believed to be genetic relatives) in rough proportion to their shared genes. The principle of reciprocal altruism says that human beings tend to develop relationships of mutual benefit or mutual harm as they interact with other individuals over time. Reciprocal altruism, unlike kin selection, does not depend on genetic relatedness: it does however, depend upon repeated, direct personal interaction.

46. From the author's point of view, the main characteristic of human society has been

- (A) Anarchic violence
- (B) Pacific ignorance of one another
- (C) Kinship based social groups
- (D) Calculated individual relations

47. The passage recognises the fact that human sociability has

- (A) Political determinants
- (B) Rational choice model
- (C) Integrated collective action
- (D) Genetic linkage

48. Human beings did not exist in a pre-social state due to

- (A) Social kinsfolk
- (B) Human politics across cultures
- (C) Institutional limitations
- (D) Absence of individual independence

49. The shared biological nature of human's influences

- (A) The division of social constructs
- (B) The nature of institutions in society
- (C) The political behaviour of people
- (D) The formation of social groups

50. The concept of social cooperation involves

- (a) Kin selection
- (b) Cognitive faculty
- (c) Emotional detachment
- (d) Reciprocal altruism

Choose the correct option:

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (c) and (d) only
- (D) (a) and (d) only

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	D	26	B
2	D	27	B
3	B	28	B
4	D	29	A
5	C	30	C
6	D	31	B
7	B	32	C
8	B	33	D
9	B	34	A
10	C	35	A
11	A	36	A
12	B	37	B
13	A	38	B
14	B	39	A
15	D	40	B
16	A	41	D
17	B	42	A
18	D	43	A
19	B	44	D
20	B	45	B
21	A	46	C
22	B	47	D
23	D	48	A
24	C	49	B
25	D	50	D

**29-09-2022 COM\_ AN**

The following table shows the percentage (%) distribution of number of students qualifying an Entrance Exam from seven schools A-G in the years 2020 and 2021. The number of students qualifying from School G in 2020 and 2021 are 90 and 135, respectively. Based on the data in the table, answer the questions 1-5:

School-wise Distribution of Qualified Students		
School	Distribution (%) of Qualified students	
	2020	2021
A	21%	23%
B	14%	8%
C	16%	11%
D	10%	14%
E	18%	16%
F	9%	13%
G	12%	15%

- The ratio of the number of students qualifying from Schools B, C and D in 2020 to that of Schools E, F and G in 2021 is  
(A) 2:3  
(B) 51:75  
(C) 3:2  
(D) 25:33
- Number of students qualifying from Schools E and G together in 2020 is \_\_\_\_\_ % of the number of students qualifying from School B in 2021.  
(A) 188.5  
(B) 247.5  
(C) 342.5  
(D) 312.5
- The percent rise in the number of students qualifying from School D from 2020 to 2021 is  
(A) 60%  
(B) 63%  
(C) 68%  
(D) 72%
- The percentage of the number of students qualifying from Schools A-G together in 2021 with reference to 2020 is  
(A) 140%  
(B) 120%  
(C) 135%  
(D) 112%
- If P and Q are the average number of students qualifying from Schools B, C and D in 2020 and from Schools E, F and G in 2021, respectively, then Q-P is  
(A) 32  
(B) 35  
(C) 38

(D) 41

6. In the context of MOOCs in Higher Education in India, which of the following are CORRECT?

- (a) They are learner-centric
- (b) They can be delivered only through SWAYAM portal
- (c) They can benefit large number of learners
- (d) They can be accessed anytime, anywhere and any number of times.
- (e) All MOOCs are for earning credit

Choose the correct answer from the options given below:

- (A) (a) and (d) only
- (B) (c) and (d) only
- (C) (a), (b) and (e) only
- (D) (a), (c) and (d) only

7. Which of the following statements are correct regarding VoLTE?

- (a) VOLTE stands for 'Voice over Long-Term Evaluation'.
- (b) It is a digital packet voice service delivery over IP via an LTE access network.
- (c) Provides more efficient use of spectrum than traditional voice.
- (d) Eliminates the need to have voice on one network and data on another network.

Choose the correct answer from the options given below:

- (A) (a), (b), (c) and (d) only
- (B) (b), (c) and (d) only
- (C) (a), (b) and (c) only
- (D) (a), (c) and (d) only

8. Miss Reena has been appointed by the Cyber Security Cell of Mumbai to break into the website of a terrorist organization to extract information. What among the following is a suitable description of Reena's profile?

- (A) Hactivist
- (B) Ethical Hacker
- (C) Troller
- (D) Black hat hacker

9. Given below are two statements:

Statement (I): In India increasing access to higher education has been constrained by low completion rates at secondary education stage.

Statement (II): By 2030, all multidisciplinary higher education institutions will be closed down.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

10. In which of the following methods of teaching, the student has to find out the answer to his/her own problem by unaided efforts?

- (A) Case-study method
- (B) Heuristic method

- (C) Flipped classroom method
- (D) Demonstration method

11. In India, much of the Central Government expenditure on general higher education is routed through

- (A) National Council of Teacher Education.
- (B) All India Council for Technical education
- (C) University Grants Commission
- (D) National Council for Educational Research and Training.

12. Given below are two statements:

Statement (I):  $8 \text{ megabytes} = 2^{13} \text{ gigabytes}$

Statement (II): The decimal equivalent of the binary number  $(11101.101)_2$  is  $(29.625)_{10}$ .

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

13. Given below are two statements:

Statement (I): Increasingly, photovoltaic panels are being used to supplement electrical energy from the power grid.

Statement (II): One issue with grid-connected photovoltaics is that PV cells produce Alternating Current (AC) whereas power grids use Direct Current (DC)

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

14. If 'some men are vegetarians' is given as false, which of the following can be inferred to be true from it?

- (a) All men are vegetarians.
- (b) No men are vegetarians.
- (c) Some men are not vegetarians.
- (d) All non-vegetarians are men.

Choose the correct answer from the options given below:

- (A) (a), (b), and (c) only
- (B) (b), (c) and (d) only
- (C) (b) and (c) only
- (D) (c) only

15. For which of the following forms of categorical propositions conversion is valid?

- (a) Some S is P
- (b) Some S is not P
- (c) No S is P
- (d) All S is P

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d) only
- (B) (a), (c) and (d) only
- (C) (b), (c) and (d) only
- (D) (a), (b) and (d) only

16. Teacher 'A' uses chalk and board and dictates notes to students in classroom. Teacher 'B' uses Videoconferencing tool and LMS for providing digital resources. Which modes of teaching are used by teacher A and teacher B?

- (A) Both online
- (B) Both offline
- (C) Teacher - A: online: Teacher - B: offline
- (D) Teacher - A: offline: Teacher - B: online

17. In communication, a high order of inference drawn from experience, direct or indirect, is responsible for

- (A) Generalisation
- (B) Simplification
- (C) Abstraction
- (D) Strong reaction

18. Given below are two statements:

Statement (I): Aristotelian syllogism is essentially verbalistic.

Statement (II): Nyāya system recognizes the fact that the verbal form is the essence of inference.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

19. In a certain coding language, if 'CRICKET' is coded as 2632479, 'ROCKET' is coded as 612479, and 'KETTLE' is coded as 479907, then how 'LOCKER' shall be coded in that language?

- (A) 102674
- (B) 021647
- (C) 120764
- (D) 012476

20. Which of the following tools can be used for ICT enabled teaching?

- (A) Paper charts
- (B) Physical models
- (C) Projector
- (D) Black Board

21. Given below are two statements:

Statement (I): Communication and socialisation are two non-convergent dimensions of any modern society.



Statement (II): Communication enables the promotion of values that facilitate the process of enculturation of people in a society.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

22. Broad parameters adopted by National Institutional Ranking Framework (NIRF) are

- (a) Teaching, learning and Resources
- (b) Graduation outcomes
- (c) Outreach and Inclusivity
- (d) Peer perception
- (e) Low Carbon footprint

Choose the most appropriate answer from the options given below:

- (A) (a), (b), (c), (d) only
- (B) (a), (b), (d), (e) only
- (C) (b), (c), (d), (e) only
- (D) (a), (c), (d), (e) only

23. There are three numbers in the ratio of 3:5:7 and the sum of these numbers is 975. Find the three numbers.

- (A) 195, 325, 455
- (B) 325, 195, 455
- (C) 195, 310, 470
- (D) 205, 315, 455

Aiifer

24. A major focus in quantitative research is on

- (A) Historicity
- (B) Causality
- (C) Social reflections
- (D) Creating an artificial environment

25. Which University in India was first to throw all University examinations open to girls?

- (A) Punjab University
- (B) Calcutta University
- (C) Savitribai Phule University
- (D) Bombay University

26. According to current estimate, the gross enrolment ratio in Higher Education in India is around 27%, which is expected to be increased to \_\_\_\_\_ by the end of 2035.

- (A) 30%
- (B) 40%
- (C) 50%
- (D) 60%

27. What is the concept of International Net Neutrality?

- (A) Imposed limitations for end-to-end Internet access
- (B) Broadband service providers can show preference to content

- (C) Unimpeded end to-end Internet access and usage
- (D) All content that flows throughout the Internet should not be treated equally.

28. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Communication has the power to persuade, inform and disinform.

Reasons (R): The process of propaganda makes the line of distinction transparent between its elements for being persuasive.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

29. Which of the following is considered as the highest scale in measurement?

- (A) Nominal
- (B) Ordinal
- (C) Interval
- (D) Ratio

30. Given below are two statements:

Statement (I): In svārtha Anumāna (inference for oneself) we do not require a formal statement of the different members of inference, according to Nyāya view of inference.

Statement (II): Svārtha Anumāna is a psychological process.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

31. A systematic review of literature adopts

- (A) Explicit procedures
- (B) Implicit procedures
- (C) Personal-choice procedures
- (D) Peer-suggested procedures

32. Find the next term in the following series: 1, 2, 4, 6, 7, 18, 10, 54, ?

- (A) 162
- (B) 13
- (C) 64
- (D) 72

33. Which of the following statements are correct?

Principal components of a CPU in a computer include:

- (a) The Solid-State Drive (SSD) that stores data persistently, typically using flash memory.
- (b) The Arithmetic-Logic Unit (ALU) that performs arithmetic and logic operations.
- (c) Processor registers that supply operands to the ALU and stores the results of ALU operation.

- (d) The Control Unit (CU) that orchestrates the fetching (from memory), decoding and execution of instructions.

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (b) and (c) only
- (D) (a) and (d) only

34. In which context, the true effects of mass media communication on mass audience can be understood?

- (A) Economic
- (B) Social
- (C) Political
- (D) Spiritual

35. On allowing two successive discounts of 20% and 15%, the selling price of an article becomes Rs. 3060. What is the marked price of the article?

- (A) 4000
- (B) 4100
- (C) 4200
- (D) 4500

36. Depending on the intention which of the following logical informal fallacies may be involved in the following argument —'I am shocked to hear you preaching atheism. Does your father know you believe that?'

- (a) Appeal to authority
- (b) Appeal to emotion
- (c) Appeal to majority
- (d) Appeal to force

Choose the correct answer from the options given below:

- (A) (a) and (d) only
- (B) (a) and (b) only
- (C) (b) and (d) only
- (D) (b) and (c) only

37. Which of the following are types of error in survey research?

- (a) Sample error
- (b) Source error
- (c) Observational error
- (d) Data collection error
- (e) Data processing error

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (b), (d), (e) only
- (D) (a), (d), (e) only

38. Given below are two statements:

Statement (I): All potential pollutants are synthetic chemicals.

Statement (II): Many of the emerging contaminants have been observed to bioaccumulate in wildlife and humans.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

39. Global warming can lead to/aggravate which of the following natural disasters?

- (a) Draught
- (b) Earthquake
- (c) Flood
- (d) Storm

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (a), (c), (d) only
- (C) (b), (c), (d) only
- (D) (b), (d) only

40. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Chlorofluorocarbons (CFCs) are potent greenhouse gases.

Reasons (R): CFCs have the ability to catalytically destroy ozone in stratosphere.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

41. The simple interest accrued on a sum of certain principal is Rs. 1200 in 4 years at the rate of 8% per annum. What would be the simple interest accrued on thrice of that principle at the rate of 6% per annum in 3 years?

- (A) 2150
- (B) 2050
- (C) 2025
- (D) 2100

42. Given below are two statements:

Statement (I): Often qualitative studies provide too many details of the setting that are investigated.

Statement (II): Critics point out that qualitative research suffers from the issue of replication.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

43. When it comes to knowledge-sharing, the important aspects of communication are:

- (a) The supply sides
- (b) The demand sides
- (c) The policy currents
- (d) The push and pull of policy makers
- (e) The choice of filters

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (c), (d), (e) only
- (D) (a), (d), (e) only

44. Typhoid fever, a water born disease is caused by

- (A) Virus
- (B) Bacteria
- (C) Protozoan
- (D) Helminth

45. Which of the following are useful tips in preparing questions for a structured interview?

- (a) Introductory questions should be related to pleasantries.
- (b) Introductory questions should be related to the research topic.
- (c) Questions can be grouped, if the list of questions is long.
- (d) General questions should precede specific questions.
- (e) Repeat the personal questions again and again to test the truthfulness of the responses of the interviewee.

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (a), (c), (d) only
- (C) (b), (c), (d) only
- (D) (a), (d), (e) only

Read the following passage and answer questions from questions 46 to 50.

The conceptions and treatment of poverty were quite different before 1940. In colonial times the concern with poverty was conditioned by the belief that even if the natives could be somewhat enlightened by the presence of the coloniser, not much could be done about their poverty. It was because their economic development was pointless. The natives' capacity for science and technology, the basis for economic progress was seen as nil. However, within Asian, African and Latin or Native American societies, vernacular societies had developed ways of defining and treating poverty that accommodated visions of community, frugality, and sufficiency. It is true that massive poverty in the modern sense appeared only when the spread of market economy broke down the communities. As a result, it deprived millions of people from access to land, water and other resources. With the consolidation of market economy, systemic issues became inevitable.

It is important to know the break that occurred in the conceptions and management of poverty first with the emergence of capitalism in Europe, and later with the advent of development in the Third world. The first break is described in terms of the advent in the nineteenth century of systems for dealing with the poor, based on assistance provided by impersonal institutions. Philanthropy occupied an important place in this transition. The transformation of the poor into the assisted had a profound consequence. The modernisation of poverty invariably affected vernacular relations.

46. Capitalistic development introduced the idea of
- (A) Modernised poverty
  - (B) Impersonal institutions
  - (C) Third world
  - (D) Vernacular relations
47. The Vernacular societies encountered economic poverty with
- (A) Science and technology
  - (B) External aid
  - (C) Modern ideas
  - (D) Use of resources sparingly
48. The passage focuses on
- (A) The merits of market economy
  - (B) The need for philanthropy to reduce poverty
  - (C) The ill-effects of capitalism
  - (D) The issue of redefining poverty in the Third World.
49. Before 1940, colonisers believed that poor countries
- (A) Can be changed
  - (B) Can be totally enlightened
  - (C) Cannot be changed
  - (D) Do not need their presence
50. The market economy was responsible for
- (A) Increased access to resources
  - (B) Massive poverty
  - (C) Enlightened development
  - (D) Idealisation of tradition

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	D	26	C
2	D	27	C
3	C	28	C
4	B	29	D
5	A	30	A
6	D	31	A
7	A, B	32	B
8	B	33	B
9	C	34	B
10	B	35	D
11	D	36	A
12	D	37	D
13	C	38	D
14	C	39	B
15	B	40	B
16	D	41	C
17	C	42	A
18	C	43	A
19	D	44	B
20	C	45	C
21	D	46	A
22	A	47	D
23	A	48	B
24	B	49	C
25	D	50	B

**14-10-2022 COM\_FN**

The following table presents the percentage (%) distribution of production of various models of Laptop (A-F) manufactured by a company over two consecutive years in 2019 and 2020. The total number of Laptops produced in 2019 was 35 lakh and in 2020, it was 44 lakhs. Based on the data in the table, answer the questions:

Year-wise Percentage Distribution of Production of Laptops

Year	Laptop Model (in %)					
	A	B	C	D	E	F
2019	30%	15%	20%	10%	15%	10%
2020	40%	20%	15%	10%	10%	5%

- If 90% of the Model-D Laptops produced in each year were sold by the company, then how many Model-D Laptops remained unsold?  
(A) 76500  
(B) 93500  
(C) 79000  
(D) 87000
- Total number of Laptops of models A, B and E produced in 2019 was:  
(A) 24.50 lakh  
(B) 22.75 lakh  
(C) 21.00 lakh  
(D) 19.25 lakh
- If the percentage production of Model-A Laptops in 2020 was same as that in 2019, then the number of Model-A Laptops produced in 2020 would have been:  
(A) 14.0 Lakh  
(B) 13.2 Lakh  
(C) 11.7 Lakh  
(D) 10.5 Lakh
- What is the ratio of number of Model-F Laptops produced in 2019 to the number of Model-C Laptops produced in 2020?  
(A) 33:59  
(B) 35:66  
(C) 37:61  
(D) 31:65
- What was the difference in the number of Model-B Laptops produced in 2019 and 2020?  
(A) 3.55 lakh  
(B) 2.70 lakh  
(C) 2.25 lakh  
(D) 1.75 lakh
- Given below are two statements:  
Statement (I): Education for environment is a process of inquiry and action on real environmental issues.



Statement (II): Children are educated about environmental problems, equality and many other issues, without development of skills and attitudes to meet these challenges.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

7. A sum of ₹53 is divided among A, B and C in such a way that A gets ₹7 more than what B gets and B gets ₹8 more than what C gets. The ratio of their shares is:

- (A) 27:20:12
- (B) 27:17:09
- (C) 25:18:10
- (D) 23:19:11

8. Match List I with List II:

List I (Article of Indian Constitution)	List II (Subject)
(a) 45	(I) Empowering the state to make special provisions for women and their education
(b) 30	(II) Responsibility of education department of the Union Territories under the Central Government
(c) 15(3)	(III) Right to free and compulsory education
(d) 239	(IV) Right of minorities to establish and administer education institutions

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)
- (B) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
- (C) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)
- (D) (a)-(I), (b)-(III), (c)-(II), (d)-(IV)

9. Match List I with List II:

List I (In a square of opposition)	List II (Resultant)
(a) 'A' being given false	(I) 'E' is false
(b) 'E' being given false	(II) 'E' is true
(c) 'I' being given false	(III) 'I' is undetermined
(d) 'O' being given false	(IV) 'I' is true

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(III), (c)-(II), (d)-(IV)
- (B) (a)-(III), (b)-(IV), (c)-(II), (d)-(I)
- (C) (a)-(II), (b)-(I), (c)-(III), (d)-(IV)
- (D) (a)-(IV), (b)-(II), (c)-(III), (d)-(I)

10. Which of the following represent the Quantitative Research methodology?

- (a) One to One Interview
- (b) Survey research
- (c) Focus groups
- (d) Correlation research
- (e) Descriptive research

Choose the correct answer from the options given below:

- (A) (a), (d), (e) Only
- (B) (b), (d), (e) Only
- (C) (b), (c), (d) Only
- (D) (c), (d), (e) Only

11. Match List I with List II:

List I (Computer terms)	List II (Description)
(a) Hub	(I) Input device
(b) Joystick	(II) Operating system
(c) Notepad	(III) Network device
(d) Android	(IV) Text editor

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(III), (c)-(IV), (d)-(II)
- (B) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)
- (C) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)
- (D) (a)-(IV), (b)-(II), (c)-(I), (d)-(III)

12. Given below are two statements:

Statement (I): While developing a 'consent form' an explanation of the purpose of the study, the reason for the selection of the participants should be explicit.

Statement (II): However, there is no need to give a description of any potential risks to the participants.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

13. Match List I with List II:

List I (Research Methodology)	List II (Approaches/Beliefs)
(a) Source criticism	(I) The observer is the part of what is being observed
(b) Positivism	(II) Reality cannot be known with certainty
(c) Interpretivism	(III) The process of evaluating the qualities of origin of information
(d) Post-Positivism	(IV) Human interests are irrelevant

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)  
 (B) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)  
 (C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
 (D) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)

14. Match List I with List II:

List I (Number Series)	List II (Value of P in the Series)
(a) 2, 9, 28, 65, 126, P, ....	(I) 220
(b) 2, 10, 30, 68, 130, P, ....	(II) 222
(c) 3, 4, 11, 30, 67, 128, P, ....	(III) 217
(d) 5, 12, 31, 68, 129, P, ....	(IV) 219

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)  
 (B) (a)-(IV), (b)-(II), (c)-(III), (d)-(I)  
 (C) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)  
 (D) (a)-(I), (b)-(II), (c)-(IV), (d)-(III)

15. Arrange the following different types of computer networks in an ascending order on the basis of geographical area implied.

- (a) MAN  
 (b) WAN  
 (c) LAN

Choose the correct answer from the options given below:

- (A) (c), (b), (a)  
 (B) (a), (c), (b)  
 (C) (c), (a), (b)  
 (D) (b), (a), (c)

16. Which of the following is the act of obtaining a password or other confidential information from a person within an organization by using unauthorized means such as feigning an emergency situation?

- (A) Social engineering  
 (B) Trojan horse  
 (C) Password crack  
 (D) Stepping-stone attack

17. The standard form categorical proposition of 'Roses are fragrant' is

- (A) Some Roses are fragrant  
 (B) Some fragrant things are not Roses  
 (C) No fragrant things are Roses  
 (D) All Roses are fragrant things

18. 400 students took a mock test; 60% of the boys and 80% of the girls cleared the cut off in the test. If the total percentage of students clearing the cut off in the test is 65%, then how many girls appeared in the test?

- (A) 100  
 (B) 120

- (C) 150  
(D) 300

19. Match List I with List II:

List I (Institutes of National Importance)	List II (Locations)
(a) National Institute of Design	(I) Mohali
(b) National Institute of Pharmaceutical Education and Research	(II) Ahmedabad
(c) Vishvesaraya National Institute of Technology	(III) Vijayawada
(d) School of Planning and Architecture	(IV) Nagpur

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(III), (c)-(IV), (d)-(II)  
(B) (a)-(III), (b)-(IV), (c)-(II), (d)-(I)  
(C) (a)-(IV), (b)-(III), (c)-(I), (d)-(II)  
(D) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)
20. Which of the following referencing style is used for research in the field of Business, History and Arts?  
(A) APA style  
(B) MLA style  
(C) Chicago style  
(D) IEEE style
21. In 2018, the Original Framework Agreement on establishment of International Solar Alliance was amended to extend the scope of its membership to  
(A) All member states of United Nations  
(B) The SAARC countries  
(C) Countries in the Middle-East  
(D) Countries in the Sub-Saharan Africa
22. Given below are two statements:  
Statement (I): Extrinsically motivated students are driven by rewards and praise.  
Statement (II): Intrinsically motivated students engage with a subject for the personal satisfaction it brings.  
In the light of the above statements, choose the correct answer from the options given below:  
(A) Both Statement (I) and Statement (II) are true  
(B) Both Statement (I) and Statement (II) are false  
(C) Statement (I) is true but Statement (II) is false  
(D) Statement (I) is false but Statement (II) is true
23. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).  
Assertion (A): The understanding of communication as a ritual is not a radical view.  
Reason (R): The hegemonic view of transmission of communication is no longer valid.  
In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)  
 (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)  
 (C) (A) is true but (R) is false  
 (D) (A) is false but (R) is true

24. The University Grants Commission was constituted on the recommendation of which of the following?  
 (A) Mudaliar Commission  
 (B) Sargent Commission  
 (C) Radha Krishnan Commission  
 (D) Kothari Commission

25. Find the principal if the compound interest is charged on the principal at the rate of  $16\frac{20}{3}\%$  per annum for two years and the sum becomes ₹196.  
 (A) ₹140  
 (B) ₹144  
 (C) ₹150  
 (D) ₹154

26. Match List I with List II:

List I (Bigg's Presage Process- Performance model of learning)	List II (Factors)
(a) Learning Outcome	(I) Prior Knowledge
(b) Learning Focused Activities	(II) Satisfaction, Affective involvement
(c) Student Characteristics	(III) Ongoing approach to learning
(d) Teaching Context	(IV) Assessment

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(II), (c)-(III), (d)-(I)  
 (B) (a)-(I), (b)-(IV), (c)-(II), (d)-(III)  
 (C) (a)-(II), (b)-(III), (c)-(I), (d)-(IV)  
 (D) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)

27. Identify the correct sequence of barriers to effective communication.  
 (a) Physical  
 (b) Perceptual  
 (c) Emotional  
 (d) Cultural  
 (e) Semantic

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d), (e)  
 (B) (b), (c), (d), (e), (a)  
 (C) (d), (c), (a), (e), (b)  
 (D) (e), (d), (b), (a), (c)

28. The Internet-based communication for learning is

- (a) Isolated
- (b) Inter-dependent
- (c) Interactive
- (d) Automatic
- (e) Wide-ranging

Choose the correct answer from the options given below:

- (A) (a), (b), (c) Only
- (B) (b), (c), (d) Only
- (C) (c), (d), (e) Only
- (D) (a), (d), (e) Only

29. Identify the correct sequence of the following countries in respect of their ranking in Sustainable Development Index 2020.

- (a) China
- (b) USA
- (c) Brazil
- (d) Russia
- (e) India

Choose the correct answer from the options given below:

- (A) (d) > (b) > (a) > (e) > (c)
- (B) (b) > (a) > (c) > (d) > (e)
- (C) (b) > (a) > (d) > (c) > (e)
- (D) (d) > (b) > (a) > (c) > (e)

30. With respect to RAM and ROM, which of the following statements are true?

- (a) ROM is Real optical memory.
- (b) RAM stores the instructions you are currently working on.
- (c) ROM stores the BIOS.
- (d) RAM allows the user to read and write data.
- (e) Both RAM and ROM lose their data when the power is turned off.

Choose the correct answer from the options given below:

- (A) (a), (d) and (e) only
- (B) (b), (c) and (d) only
- (C) (a), (b) and (c) only
- (D) (c), (d) and (e) only

31. Given below are two statements with regard to websites:

Statement (I): 'Twitter' allows users to send small posts known as 'tweets' up to 140 characters in length.

Statement (II): By default, blogs display posts in chronological order on the home page with the earliest post at the top.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false

(D) Statement (I) is false but Statement (II) is true

32. Identify the tools for shared viewing of visual and other interactive content within real-time environments.

- (a) Virtual whiteboard
- (b) Slide showing
- (c) Polling
- (d) Quizzing
- (e) Avatars

Choose the most appropriate answer from the options given below:

- (A) (a), (b), (c), (d) only
- (B) (a), (b), (d), (e) only
- (C) (a), (c), (d), (e) only
- (D) (b), (c), (d), (e) only

33. Given below are two statements:

Statement (I): Atmospheric stability is important because it determines the ability of pollutants to disperse vertically in the atmosphere.

Statement (II): In summer season in India, the atmosphere is generally stable.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

34. Which of the following pramanas are accepted as valid by the Naiyayikas?

- (a) Perception
- (b) Inference
- (c) Presumption
- (d) Verbal Testimony
- (e) Comparison

Choose the correct answer from the options given below:

- (A) (a), (b), (c) and (d) Only
- (B) (b), (c), (d) and (e) Only
- (C) (a), (b), (d) and (e) Only
- (D) (a), (c), (d) and (e) Only

35. Which one of the following formal fallacies is committed in the given argument?

All athletes are sportspersons.

No actor is an athlete.

Therefore, no actors are sportspersons.

- (A) Fallacy of Illicit process of Major Term
- (B) Fallacy of Illicit process of Minor Term
- (C) Fallacy of Exclusive Premises
- (D) Existential Fallacy

36. Given below are two statements:

Statement (I): Through attention frame, it is possible to assess the rate at which communicated content is brought to the notice of the people.

Statement (II): In modern societies, the attention frames are uniform, unrefined and non-interactive when all the frames available in the world are taken into account.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

37. Given below are two statements:

Statement (I): In Anvaya-Vyatireki; middle term is both positively and negatively related to the major term.

Statement (II): The knowledge of vyapti in Anvaya-Vyatireki is arrived at through the joint method of agreement in presence and in absence.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

38. Given below are two statements based on the following:

A Car travels 25 km/hour faster than a bus for a journey of 500 Km, and the bus takes 10 hours more than the car.

Statement (I): Speed of the car is 45 km/hour.

Statement (II): Speed of the bus is 20 km/hour.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

39. Cyclical phases/subprocesses of self-regulated learning model by Zimmerman operate as

- (a) Task Analysis
- (b) Self-motivation beliefs
- (c) Self-control
- (d) Self-observation
- (e) Self- Judgement
- (f) Self-Reaction

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d), (e), (f)
- (B) (a), (c), (e), (b), (d), (f)
- (C) (b), (e), (f), (a), (c), (d)



(D) (b), (c), (d), (a), (e), (f)

40. Arsenic pollution in ground water is due to

- (A) Oxides of arsenic
- (B) Sulphates of arsenic
- (C) Acids of arsenic
- (D) Nitrates of arsenic

41. A drawing that charts the relationships among ideas is known as \_\_\_\_\_.

- (A) Divergent thinking
- (B) Concept map
- (C) Episodic memory
- (D) Embodied cognition

42. Exceptional classroom communication will result in

- (A) Institutionalisation of teaching
- (B) Noticeable student achievement
- (C) Change in focus areas of students
- (D) Manufacturing of consent

43. NITI Aayog is a/an

- (A) Statutory body of GOI
- (B) Autonomous body of GOI
- (C) Advisory body to GOI
- (D) Executive body of GOI

44. Relics such as fingerprints are considered credible by which of the following Research methodology?

- (A) Experimental
- (B) Quantitative
- (C) Historical
- (D) Descriptive

45. What is the correct sequence of various components of biogas in terms of their abundance?

- (a) Ammonia ( $NNNN_3$ )
- (b) Hydrogen Sulphide ( $NN_2SS$ )
- (c) Methane ( $CCNN_4$ )
- (d) Carbon dioxide( $CCCC_2$ )

Choose the correct answer from the options given below:

- (A) (b) > (d) > (a) > (c)
- (B) (c) > (d) > (a) > (b)
- (C) (d) > (c) > (b) > (a)
- (D) (c) > (d) > (b) > (a)

Read the following passage and answer questions from 46 to 50.

The wastage of food is substantial in every country, but some studies have shown that it is more serious in developing countries. The UNFAO had estimated that one-third of all produced food may be getting wasted. The world produces twice the amount of food that is needed, but large numbers of people are

deprived of it due to wastage and other reasons. Food gets wasted at the farm, when it moves to the market and is processed, stored and shifted to shops, and finally in the kitchen. Many fruits and vegetables perish soon after harvesting. There is a need to improve production and storage practices, transport and infrastructure, cold chain systems and processing techniques. Modern technologies and packaging methods are needed. But even in countries where these facilities are available, wastage is high. So, the most important requirement is to improve popular awareness of the need to ensure that food is not wasted in any form, at any stage. China has launched a clean plate campaign against wastage. It is estimated that food worth at least Rs. 1 lakh crore is wasted in India, and this does not include wastage of cooked food. A part of that should be enough to feed the larger numbers of hungry people in the country, which is ranked 94 out of 107 countries in the global hunger index. Food is wasted massively at weddings and on other occasions. The Delhi Government had, in pre-Covid times, thought of restricting the number of guests at weddings to reduce wastage of food. The UN report says that reducing food waste would also cut greenhouse gas emissions and slow the destruction of nature through land conversion and pollution. Avoiding food wastage should therefore become a national mission. It will have very positive environmental, social and economic impacts. In India, it is stated that the household food wastage is 50 kg per capita per year, which is less than in countries like the US and China. It is not because of efficient use of food, because of overall availability of food.

46. A major fall out of enormous amount of food wastage is
- (A) More food production
  - (B) Uneven access to market
  - (C) Large number people going hungry
  - (D) More investment in the farm sector of developing countries

47. Stoppage of food wastage is needed in the interest of
- (A) Food production
  - (B) National food mission
  - (C) Bring down the number of countries in Global Hunger Index
  - (D) Making food available to all

48. What are the measures suggested to reduce food wastage?
- (a) Better storage and transport facilities
  - (b) Establishment of cold chain systems
  - (c) Closure of points of food wastage
  - (d) Restriction on weddings

Choose the correct answer from the options given below:

- (A) (a) and (b)
- (B) (b) and (c)
- (C) (c) and (d)
- (D) (a) and (d)

49. The clean plate campaign indicates the need for \_\_\_\_\_ to reduce food wastage.
- (A) Strict punishment
  - (B) Public awareness
  - (C) New processing techniques
  - (D) Improved packaging methods

50. Food wastage also causes
- (A) The rich-poor divide

- (B) Increase in contagious diseases
- (C) Harvest issues
- (D) Environmental pollution

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	C	26	C
2	C	27	A
3	B	28	C
4	B	29	B
5	A	30	D
6	A	31	B
7	C	32	A
8	C	33	C
9	B	34	C
10	B	35	A
11	C	36	C
12	C	37	A
13	C	38	B
14	C	39	A
15	A	40	C
16	A	41	B
17	A	42	B
18	D	43	C
19	C	44	C
20	A	45	D
21	A	46	C
22	D	47	C
23	C	48	A
24	B	49	A
25	C	50	B

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Based on the data in the table, answer the five questions that follow:

The following table shows the population (In lakhs) of the cities P, Q and R over the seven years from 2014 to 2020. Based on the data in the table, answer the five questions that follow:

Year-wise Population of Cities

Year	Population of City (in Lakhs)		
	P	Q	R
2014	40	20	50
2015	45	30	40
2016	60	50	60
2017	50	55	70
2018	70	60	80
2019	65	70	90
2020	80	75	100

- What is the ratio of the total population of City-P for the years 2014, 2015 and 2016 together to the total population of City-R for the years 2018, 2019 and 2020 together?  
(A) 31: 54  
(B) 29: 53  
(C) 27: 53  
(D) 29: 54
- What is the approximate average population of City-P for all the given years?  
(A) 65 Lakhs  
(B) 59 Lakhs  
(C) 52 Lakhs  
(D) 54 Lakhs
- For which city and in which year, the percent rise in population from the previous year was the highest?  
(A) City-Q and year - 2016  
(B) City-P and year - 2018  
(C) City-R and year - 2016  
(D) City-P and year – 2020
- What is the difference in the total population of City-R and the total population of City-Q for all seven years?  
(A) 130 Lakhs  
(B) 80 Lakhs  
(C) 110 Lakhs  
(D) 85 Lakhs
- What is the percentage rise in population of City-R from the year 2016 to 2017?  
(A) 8.34%  
(B) 10.00%  
(C) 16.67%  
(D) 21.45%

6. Match List I with List II:

List I (Ethical concepts in research)	List II (Characteristics)
(a) Deontological	(I) What makes people good
(b) Teleological	(II) Application of moral norms of society
(c) Relativist Theory	(III) Balancing social norms
(d) Theory of Virtue	(IV) Rule based

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)  
 (B) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)  
 (C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
 (D) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)

7. Identify the institution of National Importance among the following:

- (A) Banaras Hindu University  
 (B) Aligarh Muslim University  
 (C) Jawaharlal Nehru University  
 (D) Rashtriya Raksha University, Gandhinagar

8. Successful communication with students will promote which of the following factors?

- (a) Micro view of the world.  
 (b) Social class struggle  
 (c) Cognitive appreciation  
 (d) Personality development  
 (e) Cultural and aesthetic values

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only  
 (B) (b), (c) and (d) only  
 (C) (c), (d) and (e) only  
 (D) (a), (c) and (e) only

9. The argument 'Anamika must be elsewhere, since she is known to be alive and not to be seen at her house', is based on which of the following means of knowledge (Pramāṇa)?

- (A) Postulation (Arthāpatti)  
 (B) Non-Cognition (Unupalabdhi)  
 (C) Comparison (Upamāna)  
 (D) Verbal Testimony (Śabda)

10. Which of the following should be taken into account while preparing a questionnaire?

- (a) The purpose of research  
 (b) Brevity of questions  
 (c) Avoidance of leading questions  
 (d) Questions that seek detailed information  
 (e) Preference for double-barrelled questions

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only

- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (d) and (e) only

11. Ancient literary work such as Banabhatta's Kadambari described good education as knowledge of how many arts (Kalaas)?
- (A) 16
  - (B) 25
  - (C) 32
  - (D) 64
12. The white paper on Indian Education was announced a few days before the passing of the Indian Universities Act in
- (A) 1904
  - (B) 1914
  - (C) 1924
  - (D) 1944
13. Which of the following pairs of countries conceived the idea of the International Solar Alliance?
- (A) India and USA
  - (B) India and Australia
  - (C) India and France
  - (D) India and China
14. Which one of the following is not used for checking plagiarism?
- (A) Turnitin
  - (B) Latex
  - (C) iThenticate
  - (D) Urkund
15. Given below are two statements:  
Statement (I): 'Spam' is an attempt to acquire sensitive information for malicious reasons, by masquerading as a trustworthy entity.  
Statement (II): 'Phishing' is a type of unsolicited bulk email of identical messages sent to numerous recipients.  
In light of the above statements, choose the correct answer from the options given below:
- (A) Both Statement (I) and Statement (II) are true.
  - (B) Both Statement (I) and Statement (II) are false.
  - (C) Statement (I) is true but Statement (II) is false.
  - (D) Statement (I) is false but Statement (II) is true.
16. For effective integration of ICT in teaching-learning, the following should be used for providing online content, assessments, and for seamless virtual interaction of teachers with learners.
- (A) WhatsApp
  - (B) Content Management System
  - (C) Learning Management System
  - (D) Facebook
17. Which of the following peripheral devices are considered as only input devices?

- (a) Headphone
- (b) Optical Mark Reader (OMR)
- (c) Graphic Tablet
- (d) Light Pen
- (e) Projector

Choose the correct answer from the options given below:

- (A) (b), (c) and (d) only
- (B) (b), (c) and (e) only
- (C) (a), (b) and (c) only
- (D) (c), (d) and (e) only

18. Stable atmospheric conditions help in
- (A) Accumulation of the air pollutants
  - (B) Dispersion of the air pollutants
  - (C) Dispersion of the water pollutants
  - (D) Neutralisation of air pollutants

19. The acronym 'NHEQF' is for
- (A) National Higher Education Quality Framework
  - (B) National Higher Education Qualification Framework
  - (C) National Higher Education Quantitative Framework
  - (D) National Higher Education Quality Forum

20. Match List I with List II:

List I (Types of Communication Analysis)	List II (Communication Factor)
(a) Control	(I) 'What' aspect
(b) Content	(II) 'Channel' aspect
(c) Media	(III) 'Reach' aspect
(d) Audience	(IV) 'Who' aspect

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
- (B) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)
- (C) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
- (D) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)

21. What is the average of all the prime numbers between 30 and 50?
- (A) 38.8
  - (B) 37.8
  - (C) 39.8
  - (D) 39.5

22. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Organisational communication flows downwards, upwards and horizontally within its network of inter-dependent relations.

Reason (R): Organisational communication is not necessary to achieve the organisation's objectives.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

23. One of the barriers to reception in communication is

- (A) Environmental stimulus
- (B) Open mindedness
- (C) Message brevity
- (D) Language orderliness

24. By which of the following means can a teacher establish a good rapport with his/her students?

- (A) Showing authority in class
- (B) Impressing students by his/her knowledge and skill
- (C) Playing the role of a guide/facilitator with a desire to help them
- (D) Becoming a friend to the students

25. A television manufacturer earns 20% profit by selling each T.V. set for Rs 14,400. If the production cost is increased by 15%, what should be the new selling price of a T.V. set so as to gain a profit of 15%?

- (A) 15,870
- (B) 13,800
- (C) 12,000
- (D) 15,000

26. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Open Educational Resources (OERs) are available for free.

Reason (R): The basic philosophy behind OERs is to provide freely accessible, openly licensed text and media to all, that are useful for teaching and learning.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

27. Which of the following is a type of Fallacy of Relevance?

- (A) The Appeal to Force
- (B) The Argument from Ignorance
- (C) Complex Question
- (D) Fallacy of Composition

28. a, b, c, d all have the attributes P and Q.

a, b, c all have the attribute R.

Therefore, d probably has the attribute R.

Which of the following is true regarding the above argument?



- (a) It is a deductive argument.
- (b) It is an inductive argument.
- (c) It is an analogical argument.
- (d) It is a valid argument.
- (e) It is an invalid argument.

Choose the correct answer from the options given below:

- (A) (b) and (c) only
- (B) (a) and (d) only
- (C) (b) and (d) only
- (D) (b) and (e) only

29. The quantitative research is based on

- (A) Reductionism
- (B) Grounded theory
- (C) Field notes
- (D) Expansionism

30. Given below are two statements. one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): MOOCs are learner-centric courses.

Reason (R): MOOCs can only be accessed by a learner in the presence of his/her teacher.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

31. According to Roland Barthes, the sequence of narrative codes is:

- (a) Action
- (b) Symbolic
- (c) Semantic
- (d) Enigma
- (e) Referential

Choose the correct answer from the options given below:

- (A) (b), (c), (d), (e), (a)
- (B) (c), (d), (a), (e), (b)
- (C) (d), (e), (b), (a), (c)
- (D) (a), (c), (d), (e), (b)

32. Lifecycle assessment of a product is done keeping in mind mainly

- (A) Manufacturing
- (B) Packaging
- (C) Disposal
- (D) Distribution

33. The contribution of energy efficiency enhancement measures could be significant in the realisation of the following Sustainable Development Goals (SDGs):  
(A) SDGs 7, 11, 12, 13  
(B) SDGs 7, 11, 12, 14, 15  
(C) SDGs 5, 7, 11, 13, 17  
(D) SDGs 5, 12, 14, 17
34. Who among the following is accredited with the view that 'knowledge without character' is a sin?  
(A) Plato  
(B) Jawaharlal Nehru  
(C) Sarvapalli Radhakrishnan  
(D) Mahatma Gandhi
35. Eighteen years ago, a man was three times as old as his son. Now, the man is twice as old as his son. The sum of the present ages of the man and his son is  
(A) 72  
(B) 100  
(C) 105  
(D) 108
36. Regarding wearable technology, which of the following tasks is/are accomplished by wearable devices?  
(a) Providing more security compared to other computing devices  
(b) Sharing of a wearable device's Internet connection with other connected computers  
(c) Assisting hearing impaired persons
- Choose the correct answer from the options given below:  
(A) (a) and (b) only  
(B) (b) only  
(C) (b) and (c) only  
(D) (c) only
37. You wish to save the changed version of a document that was originally located on a standard CD-ROM. What is the best method to accomplish this?  
(A) Read the document from the CD-ROM, modify the document, then save it to the hard disk  
(B) Read the document from the CD-ROM, modify the document, then save it back to the CD-ROM  
(C) Rename the document from the CD-ROM, read and modify the document, then save it to the hard drive  
(D) Copy the document from the CD-ROM to the hard drive, read the document, modify it, and save it back to the CD-ROM
38. Two boys A and B start at the same time to ride from Delhi to Meerut, 60 km away. A travels 4 km an hour slower than B. When B reaches Meerut, he immediately turns back, meeting A, 12 km from Meerut. What is the speed of A in km/hr?  
(A) 12  
(B) 8  
(C) 6  
(D) 10

39. When a research problem is related to heterogeneous population, the most suitable sampling method is:  
(A) Cluster Sampling  
(B) Stratified Sampling  
(C) Convenient Sampling  
(D) Lottery Method
40. Solar Water Still is a device used to  
(A) Desalinate ocean water  
(B) Heat the water  
(C) Remove microbes from water  
(D) Streamline the flowing water
41. Which of the following phrases best describes blended learning?  
(A) It involves two teachers teaching the class  
(B) It involves online interactions only through LMS  
(C) It combines elements of face-to-face and online / ICT tools for teaching-learning  
(D) It involves older students teaching younger students through a mentoring approach
42. In Classical Square of Opposition, if 'All S is P' is given as false, then which of the following could be immediately inferred from it?  
(a) 'No S is P' is true  
(b) 'Some S is not P' is false  
(c) 'Some S is not P' is true  
(d) 'No S is P' is undetermined  
(e) 'Some S is P' is undetermined
- Choose the correct answer from the options given below:  
(A) (a), (c) and (e) only  
(B) (c), (d) and (e) only  
(C) (b), (d) and (e) only  
(D) (a), (b) and (e) only
43. Which of the following is/are true regarding the relation between the middle and major terms according to Nyāya philosophy?  
(a) It has to be a necessary relation.  
(b) It can be either necessary or contingent relation.  
(c) It can be causal relation.  
(d) It can be species-genus relation.  
(e) It can be member-class relation.

Choose the correct answer from the options given below:

- (A) (b), (d) and (e) only  
(B) (b), (c), (d) and (e) only  
(C) (a), (c), (d) and (e) only  
(D) (a), (c) and (d) only
44. Find the wrong number in the series given below:  
3, 8, 15, 24, 34, 48, 63, ...  
(A) 34

- (B) 48
- (C) 24
- (D) 63

45. A software company requires '1 GB RAM minimum and 2 GB RAM recommended' for its new Operating System (OS) software. The likely outcome of attempting to install this OS on a computer with 1 GB RAM would be that
- (A) files will fail to save
  - (B) peripheral devices will fail to work
  - (C) the OS will fail to install and therefore the computer will not run
  - (D) the computer will not run at its optimum performance

Read the following passage and answer the five questions that follow.

The UN (United Nations) has lost its sheen in recent times. One example is of its Secretary General Guterres' entreaty for a global ceasefire to help combat the Coronavirus has gone largely unheeded. His plea for contributions to a \$10 billion emergency coronavirus response plan to help the neediest had been met with commitments totalling just a quarter of the goal. That response barely justifies the description 'tepid', said Mark Lowcock, the top UN relief official. The United Nations, which has grown from 50 members 75 years ago to 193 members and a global staff of 44,000 was intended at its inception to provide a forum in which countries large and small believed they had a meaningful voice. But its basic structure gives little real power to the main body, the General Assembly, and the most to the World War II victors- Britain, China, France, Russia and the United States - with each wielding a veto on the 15-seat Security Council as permanent members. The council is empowered to impose economic sanctions and is the only entity permitted to deploy military force. No permanent member seems willing to alter the power structure. The outcome is chronic Security Council deadlocks on many issues, often pitting the United States against not only China and Russia but also against US allies. It is not only on questions of war and ceasefire where the United Nations is struggling for results. The Sustainable Development Goals, 17 UN objectives aimed at eliminating inequities that include poverty, gender bias and illiteracy by 2030 are imperilled. An expert belonging to the Global Policy Forum, a UN monitoring group, told a conference previously that the objectives were "seriously off track" even before the pandemic, according to a news site that covers the United Nations. UN veterans say multilateralism-solving the problems together, a tenet of the organisation's charter- increasingly collides with principles in the same charter emphasising national sovereignty and non-intervention in the country's internal affairs.

46. The Security Council deadlocks are due to
- (A) Lack of reforms in the UN power structure
  - (B) Internal differences among member nations
  - (C) The US stance against all others
  - (D) Global conflicts involving US, Russia and China
47. What obstructs the United Nations from becoming a real global body?
- (A) The power of Security Council to deploy military force
  - (B) Its limited power to impose economic sanctions
  - (C) Considerable expansion as a huge organisation
  - (D) The veto power of the permanent members of the Security Council
48. The outcome of power conflicts inside the UN is
- (A) Slow termination of wars

- (B) Tepid response to SDGs
- (C) No positive contribution for human welfare
- (D) Delayed aid to pandemic affected countries

49. The response for the UN appeal for contribution to fight the corona pandemic reflects its

- (A) Positive image
- (B) Global reach
- (C) Waning influence
- (D) Neutrality

50. The UN's ambiguous stance on many global issues is because of

- (A) Financial constraints
- (B) Rigid tenets in the UN charter
- (C) Multilateralism vs National Sovereignty
- (D) Its seamless expansion

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	D	26	A
2	B	27	A
3	A	28	A
4	A	29	A
5	C	30	C
6	D	31	D
7	D	32	C
8	C	33	A
9	A	34	D
10	A	35	D
11	D	36	D
12	A	37	A
13	C	38	B
14	B	39	B
15	B	40	A
16	C	41	C
17	A	42	B
18	A	43	C
19	B	44	A
20	B	45	D
21	C	46	A
22	C	47	D
23	A	48	B
24	C	49	C
25	A	50	C

**08-10-2022 CS\_ FN**

The following table shows the percentage (%) distribution of total number of students and total number of girls studying in six colleges A-F. Total number of students and girls studying in all the colleges together are 60000 and 24000 respectively. Based on the data in the table, answer the questions 1-5:

College-wise Distribution of Students

College	Distribution (%)	
	Students (Out of 60000)	Girls (Out of 24000)
A	10%	15%
B	9%	12%
C	23%	18%
D	18%	14%
E	16%	20%
F	24%	21%

- The difference between the number of boys and number of girls studying in College D is  
(A) 4040  
(B) 4080  
(C) 7440  
(D) 3360
- The number of girls in College F is \_\_\_\_\_% more than the number of girls in College A.  
(A) 25  
(B) 30  
(C) 40  
(D) 50
- The ratio of the number of boys in College F with the number of boys in College D is  
(A) 31:39  
(B) 39:31  
(C) 29:37  
(D) 37:29
- The average of the number of boys studying in Colleges A, B and C is  
(A) 4900  
(B) 4700  
(C) 4400  
(D) 4800
- The number of girl students studying in College C as a percentage of the number of boys studying in College E is  
(A) 70%  
(B) 75%  
(C) 80%  
(D) 90%
- Which of the following three numbers (A-C) in decimal, octal and hexadecimal notations, respectively, is/are equivalent to  $(11011001)_2$  in binary notation?

- (a)  $(217)_{10}$
- (b)  $(661)_8$
- (c)  $(DD9)_{16}$

Choose the correct answer from the options given below:

- (A) (a) only
- (B) (b) only
- (C) (a) and (b) only
- (D) (a) and (c) only

7. Human communication involves

- (a) Message transmission
- (b) Message reception
- (c) Verbal and non-verbal messages
- (d) Power-packed messages only
- (e) Messages for non-consumption

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (b), (d), (e) only
- (D) (a), (c), (e) only

8. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Discussion forums are one of the Four Quadrants for MOOC.

Reasons (R): Discussion forums are in-built feature of learning management systems (LMS).

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

9. Which goal of the 2030 Agenda for Sustainable Development adopted by India in 2015 seeks to "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all"?

- (A) Goal 2
- (B) Goal 4
- (C) Goal 6
- (D) Goal 15

10. Responses to open-ended questions are

- (A) Quantifiable
- (B) Realistic
- (C) Subjective
- (D) Imitative

11. Communication apprehension is often described as

- (A) Social relativity
- (B) Psycho-social barrier
- (C) Social anxiety
- (D) Social ambiguity

12. Match List I with List II:

List I (Learning Definitions)	List II (Proponent)
(a) Learning is an organization of behaviour.	(I) Guilford
(b) Learning is the change in behaviour resulting from behaviour.	(II) Skinner
(c) Learning is selecting the appropriate response and connecting with the stimulus.	(III) Garret
(d) Learning is a process of progressive behaviour adaption.	(IV) Thorndike

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(III), (c)-(II), (d)-(IV)
- (B) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)
- (C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
- (D) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)

13. Find the wrong term in the given series: 6, 11, 18, 27, 34, 51, 66, 83

- (A) 34
- (B) 51
- (C) 83
- (D) 11

14. Two Shopkeepers 'A' and 'B' sell certain kind of machines at the same list price. However, shopkeeper 'A' allows two successive discounts of 20% and 15% and shopkeeper 'B' allows two successive discounts of 10% and 25%. Which of the following statements is correct?

- (A) 'A' offers more discount
- (B) 'B' offers more discount
- (C) Both 'A' and 'B' offers same discount
- (D) 'A' offers 35% discount and 'B' offers 30% discount

15. Which Indian Act makes it illegal to knowingly spread a computer virus?

- (A) Data protection and Security Act, 1997
- (B) Information Security Act, 1998
- (C) Information Technology Act, 2000
- (D) Computer Misuse and Cyber Act, 2009

16. Given below are two statements:

Statement (I): Cache memory is volatile memory and is much slower than Random Access Memory (RAM)

Statement (II): CDs, DVDs and Magnetic Tapes are all optical media devices.

In the light of the above statements, choose the correct answer from the options given below:



- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

17. Geothermal field requires combination of following three conditions

- (a) A natural underground source of water
- (b) A mountain in the vicinity
- (c) An impermeable layer
- (d) A coal mine in the vicinity
- (e) A large mass of hot rock in the vicinity

Choose the most appropriate answer from the options given below:

- (A) (a), (c), (e) only
- (B) (a), (c), (d) only
- (C) (b), (c), (d) only
- (D) (b), (d), (e) only

18. At what percent of compound interest per annum, a sum of money will double in 14 years?

- (A) 4%
- (B) 5%
- (C) 6%
- (D) 6.5%

19. The National Education Policy (2020) has recommended the replacement of the UGC by an umbrella organisation, the Higher Education Commission of India (HECI) with its four Verticals, namely-

- (a) National Higher Educational Regulatory Council
- (b) General Educational Council
- (c) Medical Council of India
- (d) National Accreditation Council.
- (e) Higher Education Grants Council.

Choose the most appropriate answer from the options given below:

- (A) (a), (b), (c), (d) only
- (B) (b), (c), (d), (e) only
- (C) (a), (c), (d), (e) only
- (D) (a), (b), (d), (e) only

20. Which one of the following is a tool of grounded theory?

- (A) Constant comparison
- (B) Auditing
- (C) Deconstruction of narratives
- (D) Use of uncritical language

21. Given below are two statements:

Statement (I): Natural erosion of the soil is gradual removal of the top soil by natural processes.

Statement (II): Accelerated erosion of the soil is caused due to man-made activities. The rate of accelerated erosion is equal to the rate of soil formation.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

22. Given below are two statements:

Statement (I): Non-probability samples use available respondents and no specific Selection procedure is followed.

Statement (II): It is a fact that non-probability samples accurately reflect the population characteristics.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

23. If the statement 'All women are honest' is given as true, which of the following propositions can be inferred from it?

- (a) 'No women is honest' is false.
- (b) 'Some women are honest' is true.
- (c) 'No women is honest' is undetermined
- (d) 'Some women are not honest' is false

Choose the correct answer from the options given below:

- (A) (a), (b), (d) only
- (B) (b) and (d) only
- (C) (b), (c) and (d) only
- (D) (c) and (d) only

24. In Nyāya Syllogism all the three terms stand synthesized in which of the following steps of the inferential process?

- (A) Example (Udaharana)
- (B) Conclusion (Nigamana)
- (C) Application (Upanaya)
- (D) Reason (hetu)

25. Which of the following are sources of data in historical research?

- (a) Personal observation
- (b) Focused group discussion
- (c) Oral testimony
- (d) Relics
- (e) Actuaries

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (a), (c), (d) only

(D) (c), (d), (e) only

26. Which of the logical informal fallacy is committed in the following argument "Mr. X used abusive language toward the child who threw a stone at his car. Since child abuse is a crime, he should be reported to the authorities"?

- (A) Appeal to Emotion
- (B) Hasty generalisation
- (C) Equivocation
- (D) Appeal to force

27. Given below are two statements:

Statement (I): To form the contrapositive of a given proposition, we replace its subject term with the complement of its predicate term, and we replace its predicate term with the complement of its subject term.

Statement (II): All contra positions are valid.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

28. Given below are two statements:

Statement (I): The National Education Policy 2020 envisages that the extant 10+2 structure in School Education will be modified with a new pedagogical and curricular restructuring of 5+4+4+3 covering ages 3-18.

Statement (II): The National Education policy 2020 envisages, that prior to the age of 5 every child will move to a "Preparatory class" or "Balvatika", which has an ECCE qualified teacher.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

29. Chlorine in drinking water is used for

- (a) Disinfection
- (b) Removal of hardness
- (c) Odour treatment
- (d) Turbidity control
- (e) Removal of iron and manganese

Choose the correct answer from the options given below:

- (A) (a), (c), (e) only
- (B) (a), (b), (c) only
- (C) (a), (d), (e) only
- (D) (c), (d), (e) only

30. Match List I with List II:

List I (Protocol/Summit)	List II (Theme)
(a) Paris Agreement	(I) Emissions trading
(b) Kyoto Protocol	(II) Ozone depletion
(c) Rio declaration	(III) INDCs
(d) Montreal Protocol	(IV) Environment and development

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)  
 (B) (a)-(I), (b)-(II), (c)-(IV), (d)-(III)  
 (C) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)  
 (D) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)

31. Match List I with List II:

List I (Communication context)	List II (Related factor)
(a) Physical	(I) Group norms
(b) Cultural	(II) Sequential positioning
(c) Social and Psychological	(III) Tangible environment
(d) Temporal	(IV) Value system

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)  
 (B) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
 (C) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)  
 (D) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)

32. The grapevine communication is often driven by

- (A) External professional agencies  
 (B) Competing organisations  
 (C) Top management of an organisation  
 (D) Social networks of employees

33. Consider the following worksheet:

	A	B	C	D
1		5	10	50
2			15	50
3			20	50
4				

Which of the following formula should be entered into the cell D1 so that when it is copied into the cells D2 and D3, it gives the correct values as shown in the range D1: D3?

- (A) B1 \* \$C\$1  
 (B) \$B\$1 \* C1  
 (C) B1 \* C1  
 (D) \$B\$1 \* \$C\$1

34. Which of the following statements are correct regarding CERT-IN?

- (a) CERT-IN is the national nodal agency for responding to computer security incidents as and when they occur.
- (b) CERT-IN is operational since January 2014.
- (c) Forecast and alert of cyber security incidents is one of the functions of CERT-IN.

Choose the correct answer from the options given below:

- (A) (a), (b) and (c)
- (B) (a) and (b) only
- (C) (a) and (c) only
- (D) (b) and (c) only

35. Which of the following are the actions of an ethnographic researcher?

- (a) He gets immersed in the Social Setting.
- (b) He avoids collecting documents about the group members he is researching upon.
- (c) He observes the behaviour of group members.
- (d) He listens to their conversation.
- (e) He does not interview the participants when they are not amenable to observation.

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (a), (c), (d) only
- (C) (b), (c), (d) only
- (D) (c), (d), (e) only

36. Given below are two statements:

Statement (I): In symbolic communication, power operates through images.

Statement (II): Such an advantage of exercising power does not exist in other types of communication.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

37. Which of the following is a Group-centered method of teaching-learning?

- (A) Providing lecture notes
- (B) Team-teaching
- (C) Demonstration method
- (D) Brainstorming

38. Which Educational Institution was the first to start college classes for women?

- (A) Central Hindu Girls School
- (B) Vasanta College
- (C) Miranda House
- (D) Bethune School for Girls

39. Given below are two statements:

Statement (I): Volatile Organic Chemicals (VOCs) are among the most commonly found contaminants in ground water.

Statement (II): The concentration of VOCs in ground water is much less compared to that in surface waters.

In the light of the above statement, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

40. Which of the following levels of Bloom's taxonomy is achieved by rote learning?

- (A) Remembering
- (B) Applying
- (C) Analysing
- (D) Understanding

41. Indira Gandhi National Open University was established in the year

- (A) 1975
- (B) 1980
- (C) 1985
- (D) 2000

42. Find the average of the squares of the consecutive odd numbers from 1 to 21.

- (A) 162
- (B) 159
- (C) 161
- (D) 160

43. Two numbers are in the ratio of 7:8. If the difference between the numbers is 30, then find the numbers.

- (A) 215, 245
- (B) 205, 235
- (C) 220, 250
- (D) 210, 240

44. Given below are two statements:

Statement (I): Aristotelian syllogism regards deduction and induction as inseparably related.

Statement (II): The Nyāya school of classical Indian philosophy regards deduction and induction as two aspects of the same process.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.

(D) Statement (I) is false but Statement (II) is true.

45. In order to develop students holistically a teacher should emphasise on

- (A) subject knowledge only
- (B) remedial classes for slow learners
- (C) explain the concept well
- (D) outcome-based education along with value education

Read the following passage and answer questions from question:

Certain languages came to acquire a special status introduced by religious leaders, scholars, or conquerors. Sometimes they became the basis of power and privilege. A language spoken by a small minority, such as Latin in Medieval Europe could become the medium of scholarship, of record-keeping and of religious ceremony. A language introduced by conquerors, who became a ruling and landed elite, would be used in commerce, administration and law. During the era of imperialism, the languages of colonial powers became the languages of administration, codified laws, higher education, science and technology in their own colonies. This held back the development of older languages excluded from these spheres. To a varying extent, languages such as English and French still hold this position in some of the now independent nations of Asia and Africa. This can create problems within these states, as well as between neighbouring countries, notably in West Africa and the Caribbean. These have emerged from subjection to different alien powers. Words are symbols of human experience. Perceptions underlying them have undergone change over time and in response to new situations. Moreover, all languages are in a state of change sometimes gradual, sometimes rapid. They respond to new needs arising from developments in thought and knowledge, in productive techniques, in social relationships, in political and economic structures. Words, therefore, change their meanings and acquire fresh applications: specialised technical terms pass into general usage. And new words are invented. The process reminds us that language is not a corpus of learning, but an instrument adapted to human purposes.

46. One of the characteristics of languages is

- (A) Constant change in meanings of words
- (B) Subjection to different alien powers.
- (C) The ability to survive against heavy odds.
- (D) Their monopoly by the elites.

47. Historically, minority languages were the basis of

- (A) Medieval culture
- (B) Cultural independence
- (C) Scholarship
- (D) Religious harmony

48. The language of the conquerors was used in

- (A) Ruling over landed elite
- (B) The administration of law
- (C) Colonising the other countries
- (D) Creating social inclusiveness

49. Imperialism was responsible for

- (A) Codification of law
- (B) Racial equity

- (C) Primacy of local languages
- (D) Exclusion of old languages

50. The passage analyses languages as a
- (A) Corpus of learning
  - (B) Symbol of State power
  - (C) Tool to meet human purposes
  - (D) Formal link between old and new generations.

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	B	26	C
2	C	27	C
3	B	28	D
4	D	29	A
5	D	30	C
6	D	31	B
7	A	32	D
8	B	33	D
9	B	34	C
10	C	35	B
11	C	36	C
12	D	37	D
13	A	38	D
14	B	39	C
15	C	40	A
16	B	41	C
17	A	42	C
18	B	43	D
19	D	44	D
20	A	45	D
21	C	46	A
22	C	47	C
23	A	48	B
24	C	49	D
25	D	50	C



**08-10-2022 ECO\_ FN**

The following table shows the percentage (%) distribution of total population, literate males and literate females in six cities A-F. In all six cities together, total population, number of literate males and number of literate females are 1.5 crore, 40 lakh and 25 lakh, respectively. Ratio of males to females among the total population is 8:7. Based on the data in the table, answer the questions 1-5:


City-wise Distribution of Population

City	(%) Population (Out of 1.5 crore)	(%) Literate Males (Out of 40 lakh)	(%) Literate Females (Out of 25 lakh)
A	16%	18%	24%
B	18%	12%	18%
C	21%	20%	12%
D	15%	16%	16%
E	20%	19%	20%
F	10%	15%	10%

- The difference between the illiterate population and the literate population of City C is  
(A) 8.5 lakh  
(B) 9.5 lakh  
(C) 10.5 lakh  
(D) 20.5 lakh
- The illiterate population of City A is  
(A) 10.8 lakh  
(B) 14.2 lakh  
(C) 16.8 lakh  
(D) 18 lakh
- Number of literate males of City E as a percentage of number of literate females of city F is  
(A) 240%  
(B) 118%  
(C) 304%  
(D) 32.89%
- Number of literate males of City D is \_\_\_\_\_% more than the number of literate females of City D.  
(A) 160  
(B) 60  
(C) 61.538  
(D) 120
- Literate population of City E is \_\_\_\_\_% of the population of E.  
(A) 40  
(B) 64  
(C) 26  
(D) 42
- Given below are two statements:  
Statement (I): Aristotelian syllogism has three terms.  
Statement (II): Nyāya syllogism has five terms.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

7. What does the symbol  signify?

- (A) copyrighted material
- (B) copyable material
- (C) creative commons
- (D) copying commons

8. Kinesics, when used, will communicate a person's

- (a) Social status
- (b) Level of involvement
- (c) Emotional quotient
- (d) Political mobility
- (e) Language ambiguity

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (d), (c), (e) only
- (D) (a), (d), (e) only

9. The average weight of 30 persons is increased by 2 kg, when one of them whose weight is 40kg, is replaced by a new person. What is the weight of the new person?

- (A) 98 kg
- (B) 100 kg
- (C) 102 kg
- (D) 95 kg

10. Which of the following forms of categorical propositions is valid?

- (a) Some S is not P
- (b) Some S is P
- (c) No S is P
- (d) All S is P

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (a), (c) and (d) only
- (D) (a), (b), (c), (d)

11. Which of the following are common criteria of tests?

- (a) Administrative condition
- (b) All questions of higher order thinking skills.
- (c) Time limit
- (d) Nature of questions

(e) Marks allocation

Choose the correct answer from the options given below:

- (A) (a), (c), (d) only
- (B) (b), (c), (d) only
- (C) (b), (c), (d) and (e) only
- (D) (a), (c), (d) and (e) only

12. Find the next term in the series given below

5, 9, 14, 20, 27, 35, ?

- (A) 62
- (B) 70
- (C) 44
- (D) 42

13. Which of the following are similarity elements in both qualitative and quantitative research?

- (a) Answering research questions.
- (b) Preference to macro data.
- (c) Do not suffer from issues of error.
- (d) Importance to transparency.
- (e) Exploration of variation.

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (a), (d), (e) only
- (D) (a), (b), (e) only

14. Find the number that must be added to the terms of the ratio 13:25 to make it equal to 7:10.

- (A) 8
- (B) 11
- (C) 15
- (D) 13

15. In communication, channel richness is highest in the case of

- (A) Television
- (B) Newspapers
- (C) Face-to-face conversation
- (D) Formal reports

16. Given below are two statements:

Statement (I): The concept of cyber technology is described as a wide range of networked communication devices.

Statement (II): Many sociologists are concerned with people becoming too dependent on technology.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false

(D) Statement (I) is false but Statement (II) is true

17. The most important fallout of university reforms under whose leadership, was the first official announcement of the future education policy of the Government of India to reduce the tension created among the educated Indians by the process of his university reforms?  
(A) Charles Wood  
(B) Hunter  
(C) Curzon  
(D) Dalhousie
18. A destructive computer program that masquerades as a useful application is called  
(A) Virus  
(B) Worm  
(C) Trojan  
(D) Firmware
19. When a research study is conducted to know about an unknown area and collect information. it is known as  
(A) Pilot Study  
(B) Feasibility study  
(C) Explanatory research  
(D) Exploratory research
20. To receive email, you need an email provider, a connection to your provider and an email application. If your Internet Service Provider (ISP) has a POP sever, you have a wide choice of email applications.  
What does the acronym POP stand for?  
(A) Page Overlay Protocol  
(B) Post Office Protocol  
(C) Power Outage Protocol  
(D) Postal off Protocol
21. Which of the following universities have been recognised as Institutes of Eminence?  
(a) Banaras Hindu University  
(b) Amrita Vishwa Vidya Peetham  
(c) Calcutta University  
(d) Central University of Hyderabad  
(e) Jawaharlal Nehru University
- Choose the most appropriate answer from the options given below:  
(A) (a), (b) and (e) only  
(B) (a), (b) and (d) only  
(C) (c), (d) and (e) only  
(D) (a), (b), (c) and (d) only
22. Which of the following proposition is contrary to the proposition 'All women are honest'?  
(A) Some women are not honest.  
(B) No women are honest.  
(C) Some women are not dishonest.

(D) No women are dishonest.

23. Which of the following are sustainable Development Goals (SDGs)?

- (a) No poverty
- (b) Zero hunger
- (c) Employment to everyone
- (d) Quality education
- (e) Gender equality

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (a), (b), (c), (d) only
- (C) (a), (b), (d), (e) only
- (D) (c), (d), (e) only

24. Which of the following is a semantic barrier?

- (A) Blurred image on television
- (B) Unclear printing in newspapers
- (C) Static broadcasting
- (D) Redundancy in writing

25. In the context of curriculum, which of the following are correct?

- (a) Curriculum should be modified regularly
- (b) Curriculum should have theoretical concepts only
- (c) Curriculum should be derived from constitutional imperatives of the country
- (d) Curriculum should be made as per needs of industry & society
- (e) Curriculum should be teacher-centric.

Choose the correct answer from the options given below:

- (A) (a), (d) and (e) only
- (B) (c) and (d) only
- (C) (a), (c) and (d) only
- (D) (a), (b), (c) and (d)

26. A sum of Rs. 16800 is divided into two parts. One part is lent at a simple rate of interest of 6% per annum and the other part at 8% per annum. After 2 years the total sum received is Rs. 19,000. Find the sum lent at the rate of 6% and 8% respectively.

- (A) 12200, 4600
- (B) 11000, 5800
- (C) 12000, 4800
- (D) 4800, 12000

27. Given below are two statements:

Statement (I): Bioconcentration in humans can occur due to consumption of fish.

Statement (II): Bioconcentration is the tendency of hazardous substances to accumulate in human tissues

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false

- (C) Statement (I) is true but Statement (II) is false  
(D) Statement (I) is false but Statement (II) is true

28. Consider the worksheet below:

	A	B	C	D	E	F
1	Data	Result				
2	-4					
3						
4						

If a user wants to do the following:

- (I) Print "Within Budget" in cell B3 if the value in cell A2 is less than or equal to 100.  
(II) Print "Over Budget" in cell B3 if the value in cell A2 is greater than 100; then what formula would the user have to type in order to achieve the above stated goals?

- (A) =IF (A2<100, "Within Budget", "Over Budget")  
(B) =IF (A2>=100, "Over Budget", "Within Budget")  
(C) =IF (A2<=100, "Over Budget", "Within Budget")  
(D) =IF (A2<=100, "Within Budget", "Over Budget")

29. The proposition- 'all things are non-eternal, because they are knowable' is fallacious because

- (A) The middle term is non-exclusive.  
(B) The middle term is too narrow.  
(C) The middle term is too wide  
(D) It involves a contradictory middle term

30. Previous National Education Policy on Education-1986 was modified in the year:

- (A) 1990  
(B) 1992  
(C) 1987  
(D) 1996

31. Given below are two statements:

Statement (I): Triangulation is described as that of researchers taking different perspectives in answering research questions.

Statement (II): Triangulation is expected to produce knowledge from different insights to promote quality research

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct  
(B) Both Statement (I) and Statement (II) are incorrect  
(C) Statement (I) is correct but Statement (II) is incorrect  
(D) Statement (I) is incorrect but Statement (II) is correct

32. Which of the following is a teacher-centred method?

- (A) Problem solving  
(B) Discussion method  
(C) Inquiry approach  
(D) Demonstration method

33. Which informal logical fallacy is committed in the following argument – No one has shown that aliens did not create the crop circles. So, the crop circles must have been made by the aliens?
- (A) Begging the question
  - (B) Appeal to Ignorance
  - (C) Fallacy of accident
  - (D) Appeal to authority
34. Which of the following recognised for the first time that the government should give 'frank and cordial support' to female education and take effective measures for its expansion?
- (A) Women's Indian Association
  - (B) All India Women's Conference
  - (C) The Woods Despatch
  - (D) National Council of Women
35. In a certain coding scheme, 'UNIVERSITY' is coded as 'EIINRSTUVY,' How INSTITUTION shall be coded in the same coding scheme?
- (A) IINNOSTTTU
  - (B) IININOSUTTT
  - (C) ININOSTUTT
  - (D) IINNIOSTTTU
36. A true zero point is the feature of
- (A) Nominal scale
  - (B) Ratio scale
  - (C) Interval scale
  - (D) Ordinal scale
37. The Acts of incorporation passed in 1857 provided for the establishment of Universities of Calcutta, Bombay and Madras on the model of:
- (A) Cambridge University
  - (B) University of Harvard
  - (C) Oxford University
  - (D) University of London
38. Which of the following are unethical in the context of research?
- (a) Seeking informed consent of respondents.
  - (b) Offering incentives to respondents.
  - (c) Coercing respondents for sensitive personal information
  - (d) Hiding the research purpose from respondents.
  - (e) Maintaining confidentiality
- Choose the correct answer from the options given below:
- (A) (a) (b), (c) only
  - (B) (b), (c), (d) only
  - (C) (c), (d), (e) only
  - (D) (a), (b), (d) only
39. Indian National Ambient Air Quality standards stipulate the maximum permissible limit of annual mean concentration of  $PPPP_{2.5}$  to be
- (A)  $60 \mu\text{g}/\text{m}^3$

- (B)  $45 \mu\mu\text{g}/\text{m}^3$
- (C)  $40 \mu\mu\text{g}/\text{m}^3$
- (D)  $25 \mu\mu\text{g}/\text{m}^3$

40. Identify the correct sequence of the following elements in the mass communication process.

- (a) Selective exposure
- (b) Selective attention
- (c) Cognitive dissonance
- (d) Congruent information
- (e) Confirmation of bias

Choose the correct answer from the options given below:

- (A) (b), (a), (d), (c), (e)
- (B) (a), (e), (c), (b), (d)
- (C) (c), (d), (e), (b), (a)
- (D) (e), (c), (a), (b), (d)

41. The Microsoft Office PowerPoint, there are two types of slide orientation that are supported.

What are these orientation types?

- (A) Portrait and Landscape
- (B) Upright and Landscape
- (C) Portrait and Facedown
- (D) Landscape and Facedown

42. Wind energy

- (a) is an intermittent energy
- (b) is extremely useful at remote and isolated places
- (c) does not depend upon weather
- (d) is a clean energy
- (e) does not have any environmental impact at all

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (a), (b), (d) only
- (C) (b), (c), (d) only
- (D) (c), (d), (e) only

43. Given below are two statements:

Statement (I): Language and other symbolic means of communication are surely social products.

Statement (II): Communication media always provide the feel-good-factor to their users

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

44. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).



Assertion (A): One of the objectives of higher education is to promote critical and creative thinking abilities in students.

Reasons (R): Critical and creative thinking abilities are developed by rote learning.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

45. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Large scale dams also cause the Green House Gas emissions.

Reasons (R): When submerged vegetation decays, it produces carbon dioxide which is a greenhouse gas.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

Read the passage and answer questions from questions 46 to 50:

There is a new movement called libertarian paternalism which is not attractive. Both words are characterised by stereotypes from popular culture and politics that make them unappealing to many. Even worse, the concepts seem to be contradictory. If the terms are properly understood, both concepts reflect common sense. They are far more attractive together than alone. According to the libertarian strategy, people should be free to do what they like. It is also to opt out of undesirable arrangements, if they want to do so. The libertarian paternalists urge that people should be free to choose. Policies are designed to maintain or increase freedom of choice. The paternalistic aspect lies in the claim that it is legitimate for choice architects to try to influence people's behaviour. It is to make people's lives longer, healthier and better. Institutions in private sector and also the government should make conscious efforts to steer people's choices to improve their lives. A policy is paternalistic, if it tries to influence choices that make choosers better off, as judged by people themselves. It is a fact that individuals make often pretty bad decisions. These would not have been made, had they paid full attention and possessed complete information, unlimited cognitive abilities and complete self-control. Libertarian paternalism, however, is a relatively weak, soft and non-intrusive type of paternalism, because it does not force people from taking bad decisions.

46. The movement of libertarian paternalism is unattractive as it is a combination of

- (A) Common sense Concepts
- (B) Dogmatic concepts
- (C) Contradictory concepts
- (D) Popular culture and politics

47. The Focus of the passage is on

- (A) The opposition to libertarian paternalism

- (B) The unlimited cognitive abilities of individuals.
  - (C) The freedom of choices for a better society.
  - (D) The need to ignore the defects of libertarian paternalism.
48. The government and private institutions should make efforts to
- (A) Prevent people from taking bad decisions
  - (B) Allow people to go their own way
  - (C) Make people judge themselves
  - (D) Steer people's choices for improving their lives.
49. The libertarian strategy insists that people should opt for
- (A) Freedom of choice
  - (B) Paternalistic support
  - (C) Even undesirable arrangements
  - (D) Modification of their freedom
50. The libertarian paternalists seek policies aimed to
- (A) Change the people's preferences.
  - (B) Preserve the People's liberty of choice
  - (C) Burden the people with choices.
  - (D) Make the people's choices legitimate.



### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	B	26	A
2	A	27	D
3	C	28	D
4	B	29	A
5	D	30	B
6	C	31	A
7	C	32	D
8	A	33	B
9	B	34	C
10	CANCEL	35	A
11	D	36	B
12	C	37	D
13	C	38	B
14	C	39	C
15	C	40	B
16	A	41	A
17	C	42	B
18	C	43	C
19	D	44	C
20	B	45	CANCEL
21	B	46	C
22	B	47	C
23	C	48	D
24	D	49	A
25	C	50	B

**12-10-2022 EDU\_ FN**

The following table presents the details about the percentage (%) distribution of teachers and the number of male teachers in six different cities (A - F) There is a total of 4500 teachers in all the six cities together. Based on the data in the table, answer the questions 1-5:

City-wise Distribution of Teachers		
City ↓	Percentage of (%) Teachers	Number of Male Teachers
A	14%	200
B	16%	400
C	28%	600
D	15%	100
E	21%	500
F	06%	100

- What is the total number of male teachers in city – F, female teachers in City-C and female teachers in City-B together?  
(A) 1080  
(B) 1120  
(C) 1180  
(D) 1020
- The number of female teachers in City-D is approximately what percent of the total number of teachers in City-A?  
(A) 75  
(B) 81  
(C) 95  
(D) 91
- In which city is the number of male teachers more than the number of female teachers?  
(A) B only  
(B) D only  
(C) Both B and E  
(D) Both E and F
- What is the difference between the total number of teachers in City - E and the number of female teachers in City-F?  
(A) 625  
(B) 775  
(C) 675  
(D) 725
- What is the ratio of the number of male teachers in City-C to the number of female teachers in City-B?  
(A) 11:15  
(B) 15:11  
(C) 15:8  
(D) 8:15

6. Match List I with List II:

List I	List II
(a) National Education Policy	(I) 1993
(b) National Policy on Education	(II) 2009
(c) National Knowledge Commission	(III) 1986
(d) Learning without burden Report of the National Advisory Committee	(IV) 2020

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(II), (c)-(III), (d)-(I)  
 (B) (a)-(IV), (b)-(III), (c)-(I), (d)-(II)  
 (C) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)  
 (D) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)

7. The reforms initiated under the Rashtriya Uchchattar Shiksha Abhiyaan (RUSA) aim at:

- (a) Push for greater accountability and autonomy of state institutions  
 (b) Improving the quality of education and infrastructure  
 (c) Formulation of stringent regulations to curb commercialization of higher education  
 (d) Increase in GER up to 50 percent  
 (e) Efficient monitoring and continuous feedback mechanism

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only  
 (B) (a) and (b) only  
 (C) (a), (b), (c) and (d) only  
 (D) (b), (c), (d) and (e) only

8. What is the correct sequence of preparing vermi-compost?

- (a) Introduction of culture of worms in to the pit.  
 (b) Lining up with straw or dried grass and leaves  
 (c) Water the pit once or twice a week  
 (d) Construction of pit of half square meter area and one meter deep  
 (e) Putting into pit the organic wastes as and when generated

Choose the correct answer from the options given below:

- (A) (d), (e), (b), (a), (c)  
 (B) (a), (c), (d), (e), (b)  
 (C) (e), (a), (b), (c), (d)  
 (D) (d), (b), (e), (a), (c)

9. If 'All college professors are entertaining lecturers' is True in a square of opposition which of the following can be inferred correctly from the given codes.

- (a) 'No college professors are entertaining lecturers' is false  
 (b) 'Some college professors are not entertaining lecturers' is true  
 (c) 'Some college professors are entertaining lecturers' is true  
 (d) 'Some college professors are entertaining lecturers' is false

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (c) and (d) only
- (D) (a) and (c) only

10. Given below are two statements:

Statement (I): It is not desirable to have all the interest areas around the outside of the classroom, leaving a large dead space in the middle.

Statement (II): It is not desirable to put bookshelves next to the reading area and games equipments by the game table.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

11. 1 mm layer of pure ozone gas around earth at normal temperature and pressure is equivalent to:

- (A) 1 Dobson Unit (DU)
- (B) 10 DU
- (C) 100 DU
- (D) 0.1 DU

12. Which of the following file format contains exclusively the sound file format appropriate for web distribution?

- (a) WMV
- (b) WAV
- (c) AVI
- (d) MOV
- (e) MP3

Choose the correct answer from the options given below:

- (A) (b) and (c) only
- (B) (b) and (e) only
- (C) (a) and (d) only
- (D) (a) and (e) only

13. Identify the correct order of the following major technological changes in computers based on fourth to first generation of computers.

- (a) Microprocessors
- (b) Vacuum Tubes
- (c) Integrated Circuits
- (d) Transistors

Choose the correct answer from the options given below:

- (A) (c), (a), (d), (b)
- (B) (a), (c), (b), (d)

- (C) (a), (c), (d), (b)  
(D) (d), (b), (a), (c)

14. The procedure of assigning numbers to various degrees of opinion, attitude and other concepts, is called as:  
(A) Regression  
(B) Scaling  
(C) Variance  
(D) Concordance

15. Match List I with List II:

List I (Types of Skills)	List II (Characteristics)
(a) Public speaking	(I) To gain information
(b) Leadership	(II) Confidence
(c) Self-presentation	(III) Problem-solving
(d) Interviewing	(IV) Represents a credible person

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)  
(B) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
(C) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)  
(D) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
16. Kavita's age is eight years more than thrice the sum of the ages of her two grandsons who are twins. Nine years later, Kavita's age will be one year more than two times the sum of the ages of her two grandsons. What was the age of Kavita when her grandsons were born?  
(A) 58 years  
(B) 68 years  
(C) 65 years  
(D) 28 years
17. Organisational communication is \_\_\_\_\_ in nature.  
(A) Obtrusive  
(B) Contradictory  
(C) Non-behavioural  
(D) Applied
18. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).  
Assertion (A): Bottom ash generated into the boilers of the thermal power plants are major cause of nearby river pollution.  
Reason (R): The hot water generated from thermal power plants are discharged into the nearby rivers.  
In the light of the above statements, choose the correct answer from the options given below:  
(A) Both (A) and (R) are true and (R) is the correct explanation of (A).  
(B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).  
(C) (A) is true but (R) is false.  
(D) (A) is false but (R) is true.

19. Given below are two statements:

Statement (I): The physical context of communication must be tangible.

Statement (II): The temporal context of message deals with the sequence of events.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

20. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): A proper name has only denotation but no connotation.

Reason (R): Intension refers to set of adjectives: Extension refers to set of substantives.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

21. Identify the approaches to assessment that require performance in context.

- (a) Priming
- (b) Portfolios
- (c) Think Pair Share
- (d) Exhibitions
- (e) Token reinforcement

Choose the most appropriate answer from the options given below:

- (A) (b) and (d) only
- (B) (a) and (c) only
- (C) (c) and (d) only
- (D) (d) and (e) only

22. Match List I with List II:

List I	List II
(a) Fallacy that occurs due to appeal to non- rational methods of intimidation	(I) Argumentum ad Hominem
(b) Fallacy that occurs when an argument makes an appeal to the character of the person	(II) Accident Fallacy
(c) Fallacy that occurs when an argument is in the form of emotional "appeal to the gallery"	(III) Argumentum ad Populum
(d) Fallacy that occurs when a general rule is applied to a case in which the rule is inapplicable	(IV) Argumentum ad Baculum (force)



Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)
- (B) (a)-(III), (b)-(II), (c)-(I), (d)-(IV)
- (C) (a)-(II), (b)-(IV), (c)-(I), (d)-(III)
- (D) (a)-(IV), (b)-(I), (c)-(III), (d)-(II)

23. What comes next in the following sequence?

0.25, 2.25, 6.25, 12.25, ?

- (A) 18.25
- (B) 19.25
- (C) 16.25
- (D) 20.25

24. Given below are two statements:

Assertion (A): There are certain psychological conditions under which inference takes place.

Reason (R): Absence of positive knowledge and will to infer its presence or absence are pre-requisites for inference to be drawn.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

25. Match List I with List II:

List I	List II
(a) Learning Management System	(I) Blender
(b) Web Conferencing System	(II) Sakai
(c) Animation Maker System	(III) SPSS
(d) Data Processing System	(IV) Microsoft Teams

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(IV), (c)-(I), (d)-(III)
- (B) (a)-(IV), (b)-(I), (c)-(III), (d)-(II)
- (C) (a)-(I), (b)-(III), (c)-(II), (d)-(IV)
- (D) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)

26. Types of communication distance on a continuum of ethnocentrism in sequence are:

- (a) Indifference
- (b) Avoidance
- (c) Disparagement
- (d) Equality
- (e) Sensitivity

Choose the correct answer from the options given below:

- (A) (b), (c), (e), (d), (a)
- (B) (d), (e), (a), (b), (c)
- (C) (c), (d), (e), (a), (b)
- (D) (a), (b), (c), (e), (d)

27. Match List I with List II:

List I	List II
(a) Mist	(I) Aerosols consisting of solid particles
(b) Smoke	(II) Aerosols produced by condensation of hot vapours of metals
(c) Fume	(III) Photochemical products of VOCs and NO <sub>x</sub>
(d) Smog	(IV) Aerosols consisting of liquid droplets

Choose the correct answer from the options given below:

(A) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)

(B) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)

(C) (a)-(II), (b)-(IV), (c)-(III), (d)-(I)

(D) (a)-(IV), (b)-(II), (c)-(I), (d)-(III)

28. The population of a bacteria culture doubles every 2 minutes. How many minutes will it take for the population to grow from 1 to 1024?

(A) 10

(B) 14

(C) 18

(D) 20

29. Given below are two statements:

Statement (I): Chronic toxicity caused due to hazardous wastes is not difficult to determine.

Statement (II): Chronic effects may be seen immediately after the exposure

In the light of the above statements, choose the most appropriate answer from the options given below:

(A) Both Statement (I) and Statement (II) are correct

(B) Both Statement (I) and Statement (II) are incorrect

(C) Statement (I) is correct but Statement (II) is incorrect

(D) Statement (I) is incorrect but Statement (II) is correct

30. Which one of the following is the national repository of high-quality resources on foundational literacy and numeracy?

(A) Digital Infrastructure for Knowledge Sharing (DIKSHA)

(B) National Institute of Open Schooling (NIOS)

(C) National Repository on Open Educational Resources (NROER)

(D) National Professional Standards for Teachers (NPST)

31. Aman adds a video file to his social networking page. Which one of these describes a video that has been watched by a lot of people over a short period of time?

(A) Digital

(B) Tagged

(C) Viral

(D) Open source

32. Development of communication skills among learners involves:

(a) Vertical flow of information

(b) Restricted expression of views

(c) Logical argumentation

- (d) Sharing of doubts
- (e) Understanding human psychology

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (c), (d), (e) only
- (D) (a), (d), (e) only

33. Match List I with List II:

List I (Technical Term)	List II (Description)
(a) Phishing	(I) The action of illegally installing malicious code which redirects a person to a fraudulent website with the purpose of obtaining that person's bank details
(b) Pharming	(II) The action of sending text messages to fraudulently obtain another person's bank details
(c) Spam	(III) The action of sending emails to fraudulently obtain another person's bank details
(d) Smishing	(IV) Unsolicited bulk emails

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(III), (c)-(IV), (d)-(II)
- (B) (a)-(IV), (b)-(I), (c)-(III), (d)-(II)
- (C) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)
- (D) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)

34. Given below are two statements:

Statement (I): A fraction can be reduced to its lowest form by dividing the numerator and denominator with a common factor.

Statement (II): Two fractions can be compared by comparing their numerators if their denominators are equal.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

35. Price of a mobile is first increased by 20% and later decreased by 25%. What is the net percentage change in final price of the mobile?

- (A) 10%
- (B) 18%
- (C) 20%
- (D) 12%

36. Match List I with List II:

List I	List II
(a) $H_{H_0}: \mu\mu = \mu\mu_{HH_0} = 100$	(I) Alternate hypothesis is that the population mean is not equal to 100
(b) $H_{H_0}: \mu\mu \neq \mu\mu_{HH_0}$	(II) Alternative hypothesis is that the population mean is greater than 100
(c) $H_{H_0}: \mu\mu > \mu\mu_{HH_0}$	(III) Null hypothesis is that the population mean is equal to the hypothesised mean 100
(d) $H_{H_0}: \mu\mu < \mu\mu_{HH_0}$	(IV) Alternative hypothesis is that the population mean is less than 100

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(IV), (c)-(III), (d)-(I)  
 (B) (a)-(IV), (b)-(III), (c)-(I), (d)-(II)  
 (C) (a)-(I), (b)-(III), (c)-(IV), (d)-(II)  
 (D) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)

37. Identify the correct sequence for the technique of developing measurement tools:

- (a) Specification of concept dimensions  
 (b) Selection of indicators  
 (c) Concept development  
 (d) Formation of index

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d)  
 (B) (c), (a), (b), (d)  
 (C) (b), (c), (a), (d)  
 (D) (d), (a), (c), (b)

38. Under which initiative every student in the country will participate in a fun project/activity on 'The Languages of India', sometime in Grades 6-8?

- (A) Make in India  
 (B) Digital India  
 (C) Padhe Bharat Badhe Bharat  
 (D) EK Bharat Shrestha Bharat

39. The type of research in which the researcher gains familiarity with a phenomenon or to achieve new insights into it, is known as:

- (A) Diagnostic research study  
 (B) Exploratory research study  
 (C) Descriptive research study  
 (D) Hypothesis testing study

40. According to National Education Policy (2020), National Higher Education Regulatory Council will be the single point regulator for all disciplines except

- (A) Teacher Education  
 (B) Medical and Legal education  
 (C) Agricultural sciences  
 (D) Management

41. Which of the following is not a fallacy of Ambiguity?  
(A) Equivocation  
(B) Amphiboly  
(C) Accent  
(D) Accident
42. Identify the correct sequence in decreasing order in terms of number of universities in the State  
(a) Gujarat  
(b) Uttar Pradesh  
(c) Rajasthan  
(d) Karnataka  
(e) Madhya Pradesh

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d), (e)  
(B) (b), (c), (d), (a), (e)  
(C) (c), (b), (d), (a), (e)  
(D) (c), (b), (a), (d), (e)
43. Given below are two statements about Electronic Mail (e-mail):  
Statement (I): You can create folders to store and organise your emails.  
Statement (II): You can add attachments of any file size to an email.  
In the light of the above statements, choose the correct answer from the options given below:
- (A) Both Statement (I) and Statement (II) are true.  
(B) Both Statement (I) and Statement (II) are false.  
(C) Statement (I) is true but Statement (II) is false.  
(D) Statement (I) is false but Statement (II) is true.
44. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).  
Assertion (A): Universities play a key role in building a symbiotic relationship between the nation, state and society  
Reason (R): Universities are centres for creation and transmission of knowledge  
In the light of the above statements, choose the correct answer from the options given below:
- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).  
(B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).  
(C) (A) is correct but (R) is not correct.  
(D) (A) is not correct but (R) is correct.
45. With reference to Likert-type scale, the correct set of options include:  
(a) Likert-type scale can be performed without a panel of judges  
(b) Likert-type scales are not considered reliable  
(c) Likert type scale takes more time to construct  
(d) Each statement in Likert-type scale is given an empirical test for discriminating ability  
(e) Likert-type scale can be used in respondent-centred studies

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (a), (d), (e) only
- (D) (c), (d), (e) only

Read the passage carefully and answer the questions that follow (Q. 46-50):

Public action, in a broad sense, can play a central role in economic development and in bringing social opportunities within the reach of people as a whole. Sometimes public action is characterised in the economic literature as action by the government, not as action by the public itself. This interpretation can be seriously misleading as it draws attention away from the influence that the public can have in determining the direction of governmental action. Actions of the public can be of profound significance to the successes and failures of economic and social change in general, and to development efforts in particular. The role of public activism in influencing government policy can be particularly important in promoting the positive functions of the government. These positive functions include the provisions of public services such as health care, child immunisation, primary education, social security, environmental protection and rural infrastructure. The vigilance and involvement of the public can be quite crucial not only in ensuring an adequate expansion of these essential services but also in monitoring their functioning. Indeed, the actual reach and effective quality of the services that are meant to be, in principle available often depends a great deal on the information that the local community gathers and the extent to which it can get its voice heard. The shirking and absenteeism of village teachers for example are much more easily observed by the villagers themselves than by the government inspectors and the search for redress can be more effectively achieved with local activism. Besides, schools, hospitals and other facilities can be made more sensitive to the public needs if there is a local pressure in that direction. better than the directions from the above.

46. Positive functions of the government can be supported by:
- (A) Public influence on policy-decisions
  - (B) Focussing on education and social security
  - (C) Centralised power structure
  - (D) Top-down, one-way general instructions
47. The effective quality of services depends upon making:
- (A) Stricter rules for implementation
  - (B) Local community involved
  - (C) Redressal of grievances
  - (D) Strong government vigilance
48. Adequate monitoring of public services is possible through:
- (A) Expansion of essential services
  - (B) Improvement in quality of services
  - (C) Increasing social inclusivity
  - (D) Effective public activism
49. What does the passage advocate to make services sensitive to public needs?
- (A) Pressure by beneficiaries
  - (B) Information gathering
  - (C) Government monitoring
  - (D) Checking absenteeism among public employees

50. What can bring the social opportunities within the reach of the people?

- (A) The government directives
- (B) Economic literature
- (C) Actions of the public
- (D) Success of social change

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	A	26	B
2	D	27	A
3	C	28	D
4	B	29	B
5	C	30	A
6	C	31	C
7	B	32	C
8	D	33	C
9	D	34	A
10	C	35	A
11	C	36	D
12	B	37	B
13	C	38	D
14	B	39	B
15	D	40	B
16	A	41	D
17	D	42	CANCEL
18	B	43	C
19	A	44	B
20	A	45	C
21	A	46	A
22	D	47	B
23	D	48	D
24	A	49	A
25	A	50	C

**13-10-2022 ENG\_ FN**

The following table shows the percentage (%) distribution of five different types of Cars (A-E) produced by a Company during two consecutive years 2019 and 2020. The total number of Cars produced was 4,50,000 in the year 2019 and 5,20,000 in the year 2020. Based on the data in the table, answer the questions 1-5:

Year-wise Percentage Distribution of Production of Cars

Year	Types of Cars Produced (in %)				
	A	B	C	D	E
2019	15%	25%	30%	10%	20%
2020	10%	30%	25%	25%	10%

- If the number of Type-A cars manufactured in 2020 was the same as that of 2019, then what would have been its approximate percentage share in the total production of 2020?  
(A) 11%  
(B) 13%  
(C) 15%  
(D) 9%
- What was the difference in the production of number of Type-C cars between 2019 and 2020?  
(A) 5000  
(B) 7500  
(C) 8500  
(D) 2500
- If 85% of Type-E cars produced during 2019 and 2020 together are sold by the Company, then how many Type-E cars are left unsold by the company?  
(A) 21825  
(B) 29100  
(C) 25200  
(D) 21300
- If the percentage production of Type-B cars in 2020 was the same as that of 2019, then what would have been the number of Type-B cars produced in 2020?  
(A) 112500  
(B) 120000  
(C) 130000  
(D) 135000
- What is the ratio of number of Type-C cars produced in 2019 to the number of Type-D cars produced in 2020?  
(A) 29: 27  
(B) 23: 22  
(C) 27: 26  
(D) 27: 23



6. Which of the following file formats are appropriate for distributing video files across the internet?

- (a) .FLA
- (b) .MP3
- (c) .WMA
- (d) .AIF
- (e) .AVI

Choose the correct answer from the options given below:

- (A) (b) and (c) only
- (B) (a) and (e) only
- (C) (d) and (e) only
- (D) (c) and (d) only

7. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Universities and higher education institutions are the important foundations to the growth of any country.

Reason (R): Intellectual property right acts as a shield for invention to be misused by third parties.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)
- (C) (A) is correct but (R) is not correct
- (D) (A) is not correct but (R) is correct

8. Which one of the following formal fallacies is committed in the given argument?

All snakes are reptiles.

Some snakes are poisonous creatures.

Therefore, all poisonous creatures are reptiles.

- (A) Fallacy of Illicit process of major term
- (B) Fallacy of Illicit process of minor term
- (C) Fallacy of undistributed middle term
- (D) Fallacy of four terms

9. Given below are two statements:

Statement (I): Classical smog is formed when oxides of nitrogen combine with particulate matter especially in summer season.

Statement (II): Classical smog reduces atmospheric visibility to a great extent.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

10. In communication, meanings refer to a person's
- (A) Notions about the world
  - (B) Internal responses to a message
  - (C) Subsuming messages for suppression
  - (D) External responses only
11. Identify the correct arrangement of the following different types of computer networks in the descending order of their geographic area coverage.
- (a) MAN
  - (b) WAN
  - (c) LAN

Choose the correct answer from the options given below:

- (A) (a), (b), (c)
- (B) (b), (c), (a)
- (C) (b), (a), (c)
- (D) (c), (a), (b)

12. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Sound is non-eternal, because it is caused.

Reason (R): The middle term does not prove the eternality of sound but it's non-eternality.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

13. Match List I with List II:

List I (File extension)	List II (File type)
(a) mp3	(I) image
(b) xls	(II) music
(c) jpeg	(III) database
(d) mdb	(IV) spreadsheet

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(IV), (c)-(II), (d)-(III)
- (B) (a)-(II), (b)-(IV), (c)-(I), (d)-(III)
- (C) (a)-(II), (b)-(IV), (c)-(III), (d)-(I)
- (D) (a)-(III), (b)-(II), (c)-(I), (d)-(IV)

14. A software is termed as an open-source software if
- (A) the developer company is open 24 x 7
  - (B) its source code is available to share, study and modify
  - (C) it can be downloaded from the Internet
  - (D) it is available free of cost

15. The simple interest on a sum of money is  $\frac{1}{9}$  of the principal and the number of years is equal to 9 the rate percent per annum. The rate percent per annum is:  
 (A) 3%  
 (B) 0.33%  
 (C) 3.33%  
 (D) 2.33%
16. In a learner centered teaching environment, teachers  
 (A) recognise that all learners are unique and utilise different teaching styles  
 (B) do not provide structure and direction  
 (C) make decisions about how and what learners will learn  
 (D) do not facilitate learner's decision-making process
17. A man who can swim 48 meter/minute in still water swims 200 meter against the current and 200 meters with the current. If the difference between these two times is 10 minutes, then what is the speed of the current?  
 (A) 30 meter/minute  
 (B) 31 meter/minute  
 (C) 29 meter/minute  
 (D) 32 meter/minute

18. Match List I with List II:

List I (In a square of opposition)	List II (Resultant)
(a) 'A' being given as true	(I) 'O' is undetermined
(b) 'E' being given as true	(II) 'I' is undetermined
(c) 'I' being given as true	(III) 'T' is true
(d) 'O' being given as true	(IV) 'T' is false

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(IV), (c)-(I), (d)-(III)  
 (B) (a)-(IV), (b)-(I), (c)-(III), (d)-(II)  
 (C) (a)-(I), (b)-(IV), (c)-(II), (d)-(III)  
 (D) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
19. Which among the following is a valid criticism of experimental method in social sciences?  
 (A) Impossible to conduct in social situation  
 (B) Artificiality of laboratory condition  
 (C) Unavailability good experiments in social sciences  
 (D) Social research problems cannot be studied experimentally
20. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).  
 Assertion (A): Energy produced from biomass is considered 'carbon neutral'.  
 Reason (R): Biomass does not add  $\text{CO}_2$  to the atmosphere.  
 In the light of the above statements, choose the most appropriate answer from the options given below:  
 (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)  
 (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)

- (C) (A) is correct but (R) is not correct
- (D) (A) is not correct but (R) is correct

21. In ancient Indian education system, learners were given training in following occupations in the fields of
- (a) Architecture
  - (b) Animal Husbandry
  - (c) Agriculture
  - (d) Administration
  - (e) Dairy farming

Choose the correct answer from the options given below:

- (A) (a), (c), (e) only
- (B) (b), (c), (e) only
- (C) (a), (b), (c), (e) only
- (D) (b), (c), (d), (e) only

22. In a test consisting of 150 questions carrying 1 mark each, Rishab answered 80% of the first 75 questions correctly. What percent of the other 75 questions does he need to answer correctly to score 60% overall?
- (A) 20
  - (B) 40
  - (C) 50
  - (D) 60

23. If a survey is conducted telephonically, which among the following statements is true?
- (A) It improves quality of data
  - (B) It improves the validity research
  - (C) It reduces the cost of data collection
  - (D) It makes participants comfortable

24. Following activities are related to the conduct of experiment in social research:
- (a) Control the experimental environment
  - (b) Pilot test, revise and test
  - (c) Empathy with the participants
  - (d) Praising the good qualities of the participant
  - (e) Specify the treatment levels

Choose the most appropriate answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (e) only
- (C) (c), (d), (e) only
- (D) (a), (b), (e) only

25. Source of arsenic pollution in the ground water is
- (A) Industrial effluents
  - (B) Deep underground formations
  - (C) Dyeing industries
  - (D) Agricultural wastes

26. Koulberg's theory of moral development comprises of following stages:

- (a) Obedience orientation
- (b) Intellectual disability orientation
- (c) Rewards / Exchange orientation
- (d) Law and order orientation
- (e) Social contract orientation

Choose the most appropriate answer from the options given below:

- (A) (a), (b), (c), (d) only
- (B) (a), (c), (d), (e) only
- (C) (b), (c), (d), (e) only
- (D) (a), (b), (d), (e) only

27. Which of the following are true with regard to mass communication?

- (a) Messages are prepared by non-professionals
- (b) Messages are prepared by professionals
- (c) Messages are rapidly disseminated
- (d) Messages are supposed to be understood
- (e) Media audiences are homogenous

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (c), (d), (e) only
- (C) (b), (c), (d) only
- (D) (a), (d), (e) only

28. Which among the following was proposed by Kothari commission vis-a-vis language?

- (A) Use of mother tongue as a medium of instruction
- (B) Use of Hindi as a medium of instruction
- (C) Two-language formula
- (D) Three language formula

29. Identify the correct sequence of average noise levels in increasing order of their magnitude from different sources.

- (a) City street corner
- (b) Conversational speech
- (c) Highway
- (d) Aircraft noise during take off
- (e) Typical office

Choose the correct answer from the options given below:

- (A) (e), (a), (b), (c), (d)
- (B) (e), (b), (a), (c), (d)
- (C) (b), (e), (a), (c), (d)
- (D) (b), (e), (a), (d), (c)

30. Given below are two statements:

Statement (I): If the length of a psychological test is increased it improves both reliability and validity.

Statement (II): Score of a test can be interpreted without referring to its norm.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

31. IIT Bombay X is a non-profit MOOC platform developed by IIT Bombay using the open-source platform \_\_\_\_\_.

- (A) Joomla
- (B) Sakai
- (C) Drupal
- (D) Open edX

32. Given below are two statements:

Statement (I): One-fourth of sixty percent of a number is equal to two-fifth of twenty percent of another number. Then the respective ratio of the first number to the second number is 8:15.

Statement (II): A student is studying for a test from 11:00 am to 8:00 pm on weekdays and one-third of that time on Saturday. On Sunday, he takes a break and goes for a movie. The fractional part of the entire week that the student is studying is  $\frac{3}{7}$ .

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

33. Given below are two statements in respect of Computers:

Statement (I): A DVD-ROM is an optical storage media and it can be written many times.

Statement (II): Software is loaded into secondary storage from RAM and is then executed by CPU.

In the light of the above statements, Choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

34. What is the correct order of Global Warming Potential (GWP) of following atmospheric chemical species?

- (a) Chlorofluorocarbon (CFC)
- (b) Methane ( $\text{CH}_4$ )
- (c) Carbon dioxide ( $\text{CO}_2$ )
- (d) Nitrous oxide ( $\text{N}_2\text{O}$ )

Choose the correct answer from the options given below:

- (A) (d) > (b) > (c) > (a)
- (B) (c) < (b) < (d) < (a)
- (C) (a) > (b) > (c) > (d)

(D) (a) < (c) < (d) < (b)

35. Identify the correct sequence of information processing in communication

- (a) Input
- (b) Output
- (c) Data entry
- (d) Processing
- (e) Storage

Choose the correct answer from the options given below:

- (A) (a), (b), (e), (d), (c)
- (B) (b), (d), (e), (a), (c)
- (C) (c), (a), (d), (e), (b)
- (D) (a), (c), (d), (e), (b)

36. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): A valid deductive argument with all true premises will lead to a true conclusion.

Reason (R): In a valid deductive argument, the conclusion follows from the premises with absolute necessity.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

37. As envisaged in National Education Policy (2020), all Higher Educational Institutions will aim to have a student strength of \_\_\_\_\_ by 2040.

- (A)  $\geq 5000$
- (B)  $\geq 4000$
- (C)  $\geq 3000$
- (D)  $\geq 2500$

38. Match List I with List II:

List I (Research forms)	List II (Description)
(a) Qualitative Research	(I) File drawer problem
(b) Quantitative Research	(II) Convergence of findings based multiple methods
(c) Triangulation	(III) Statistical analysis
(d) Metanalysis	(IV) Interpretive

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)
- (B) (a)-(IV), (b)-(III), (C)-(II), (d)-(I)
- (C) (a)-(I), (b)-(IV), (c)-(II), (d)-(III)
- (D) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)

39. Given below are two. statements:

Statement (I): A man sells his goods at 10% profit. If he sells his goods at 15% profit, he gets ₹160 more. The cost price of his goods is ₹4,200.

Statement (II): A man spends 80% of his earnings. His earnings increased by 25% and his expenses increased by 20%. The man's savings thus increased by 45%.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

40. Match List I with List II:

List I (Child Development)	List II (Feature)
(a) Cliques	(I) Less intimate, more loosely organized groups
(b) Crowds	(II) General sense of oneself along with all their beliefs, emotions and attitudes.
(c) Identity	(III) Exploration with a delay in commitment to personal and occupational choices
(d) Moratorium	(IV) Relatively small, friendship-based groups

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
- (B) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
- (C) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)
- (D) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)

41. The open-source platform 'Course Builder' on which NPTEL courses are seen, was created by

- (A) Microsoft
- (B) Google
- (C) Oracle
- (D) Wipro

42. Match List I with List II:

List I (Medium)	List II (User vehicle)
(a) Newspaper	(I) URSA mini pro
(b) Radio	(II) Satellite dishes
(c) Television	(III) Electromagnetic waves
(d) Film	(IV) Rubber plate

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)
- (B) (a)-(III), (b)-(II), (c)-(I), (d)-(IV)
- (C) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)



(D) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)

43. Given below are two statements:

Statement (I): An inference which is based on the middle term being only positively related to the major term is called Kevalānvayi.

Statement (II): In Kevalānvayi anumana, the knowledge of vyapti between the middle and major terms is arrived at through the method of argument in absence.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

44. In the context of vocational education, the organisation 'NSDC' is

- (A) National Skill Development Council
- (B) National Skill Development Corporation
- (C) National Skill Documentation Centre
- (D) National Sector Development Corporation

45. Given below are two statements:

Statement (I): The disadvantage of inter-personal communication is the availability of immediate feedback.

Statement (II): The greatest advantage of mass communication is its delayed feedback

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

Read the following passage and answer questions from 46 to 50.

Television is a cultural commodity. It works within an economically determined capitalist economy, but when we have said that about it, we have said both much and remarkably little. There is a financial economy within which wealth circulates, and a cultural economy within which meanings and pleasures circulate, and the relationship between them is not as deterministic as some theorists have proposed. In the financial economy, television symbolises programmes and advertisements, not textuality. A programme is a commodity produced and then sold to distributors. In distribution, its role changes and it becomes not a commodity, but a producer, and what it produces is a new commodity, the audience which is then, in its turn, sold as a commodity to advertisers. The ramifications of this financial economy are fascinating. Here the role shift undergone by the programme in the financial economy—that from commodity to producer—is now undergone by the audience, who are left as a commodity sold to the advertiser. But in the cultural economy the audience rejects its role as a commodity and becomes a Producer, a Producer of meanings and pleasures, and at this moment stops being 'an audience' and becomes different materialisations of the process that we call "viewing television". While the metaphor of a cultural economy is a productive one, we must not let it blind us to differences between it and the financial. Meanings and pleasures do not circulate in the cultural economy in the same way that wealth

does in the financial. In the first place there is no exchange of money at the point of sale or consumption. Television appears to be free, however, it may be actually paid for. Payment has no direct relationship to consumption-people can consume as much as they wish and what they wish with no thought of what they are able to afford.

46. What is unique about television audience in a cultural economy?
- (A) They are non-stop producers of meanings
  - (B) They cannot fathom the finer nuances of financial economy
  - (C) They do not pay for content consumption
  - (D) They can consume as much sans affordability
47. How viewing television in a cultural economy affects the audience?
- (A) Audience assumes a new role
  - (B) They become a new commodity
  - (C) They cannot differentiate between the financial economy and cultural economy
  - (D) Audience restricts the circulation of meanings and pleasures
48. In distribution television becomes
- (A) Cultural commodity
  - (B) Producer of a new commodity
  - (C) Purveyor of textuality
  - (D) A source of theorisation
49. What are the ramifications of television as a commodity in financial economy?
- (A) Making huge profits
  - (B) Importance to distribution channels
  - (C) Audience for advertisers
  - (D) Enculturation of audience
50. When we consider television as a product, then it operates in a/an
- (A) Deterministic cultural system
  - (B) Circulatory commercial system
  - (C) Audience power system
  - (D) Distributive pleasure system

### ANSWER KEY

Q. NO	ANSWER KEY	Q. NO	ANSWER KEY
1	B	26	B
2	A	27	C
3	D	28	D
4	C	29	B
5	C	30	C
6	B	31	D
7	B	32	C
8	B	33	B
9	D	34	B
10	B	35	D
11	C	36	A
12	B	37	C
13	A	38	B
14	B	39	D
15	B	40	D
16	C	41	B
17	A	42	A
18	D	43	C
19	D	44	B
20	B	45	B
21	C	46	C, D
22	B	47	A
23	C	48	B
24	D	49	C
25	A, B	50	C

**13-10-2022 ENG\_ AN**

The following table shows the percentage (%) distribution of production of bicycles of two different models (L and M) by the six companies A-F, ratio of production of model L to that of M, and the percent (%) profit earned on these two models. Production cost of the six companies together is ₹6.4 crore.

**Company-wise Bicycle Production and Profit**

Company	% Distribution of Production of Bicycles	Production ratio		% Profit	
		L	M	L	M
A	20 %	13	7	25 %	32 %
B	14 %	9	5	28 %	30 %
C	22 %	6	5	20%	24 %
D	13 %	6	7	35 %	25 %
E	10 %	2	3	24 %	21 %
F	21 %	11	10	30 %	20 %

- The ratio of the cost of production of model L by Company D to that of model M by Company F is  
(A) 4:5  
(B) 3:5  
(C) 5:7  
(D) 1: 2
- Profit earned by Company A on model L (in ₹ crore) is  
(A) 0.244  
(B) 0.224  
(C) 0.208  
(D) 0.248
- The ratio of the profit earned on model L by Company B to that of model M by Company D is  
(A) 36:25  
(B) 6:5  
(C) 7:8  
(D) 123:97
- Profit earned by Companies B and C together on Model M (in ₹ crore) is  
(A) 0.2496  
(B) 0.2488  
(C) 0.2466  
(D) 0.2844
- The difference between the profit earned by Company C on model L and by Company E on model M (in ₹ crore) is  
(A) 0.7296  
(B) 7.296  
(C) 0.03648  
(D) 0.07296

6. Given below are two statements:

Statement (I): Focus group discussion is part of formative research,

Statement (II): Formative research can be both qualitative and quantitative.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

7. Which of the following propositions is obverse of and logically equivalent to "Some men are honest"?

- (A) Some men are dishonest
- (B) Some men are not dishonest.
- (C) No men are dishonest.
- (D) Some dishonest people are not men.

8. Poor analysis in historical research is due to

- (a) Impersonal interpretation
- (b) Emphasis on objective assessment
- (c) Over-generalisation
- (d) Over-simplification
- (e) Non-identification of social context

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (b) and (e) only

9. Which of the following are traditional approaches to communication?

- (a) Machine-to-machine
- (b) Machine-to-man
- (c) Rhetorical
- (d) Semiotic
- (e) Phenomenological

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (a), (d) and (e) only
- (C) (b), (c) and (d) only
- (D) (c), (d) and (e) only

10. In communication, metaphors are considered \_\_\_\_\_ in nature.

- (A) Precise
- (B) Imprecise
- (C) Non-symbolic
- (D) Non-reflective

11. Which logical informal fallacy is committed in the following argument, "No one has proved that global warming is actually occurring, so there is no reason to believe that it is actually occurring."?

- (A) Begging the question
- (B) Equivocation
- (C) Appeal to ignorance
- (D) Hasty generalisation

12. Which of the following must be ensured by a 21<sup>st</sup> Century Higher Education teacher?

- (a) Preparing students towards Higher Order Thinking Skills
- (b) Placements of students
- (c) Using digital resources
- (d) Interaction with bright students only
- (e) Inter-disciplinary approach

Choose the correct answer from the options given below:

- (A) (a), (c) and (e) only
- (B) (a), (c) and (d) only
- (C) (a), (c), (d) and (e) only
- (D) (a), (b), (c) and (d) only

13. Auto-ethnography is an approach that analyses

- (A) Personal experiences
- (B) Community issues
- (C) Local tribes
- (D) Cultural distance

14. Given below are two statements:

Statement (I): Swayam Prabha consists of a group of 34 DTH channels using GSAT-15 satellites on 24x7 basis.

Statement (II): The concept note for National Education Policy prepared by MHRD in 2014 identified as many as 53 themes.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

15. The simple interest on a sum of money is  $\frac{4}{9}$  of the principal. What will be the annual rate of interest and time (in years), if both of these are numerically equal?

- (A) 6 % and 6 years
- (B) 6.8 % and 6.8 years
- (C)  $6\frac{1}{2}$  % and  $6\frac{1}{2}$  yrs.
- (D)  $6\frac{2}{3}$  % and  $6\frac{2}{3}$  yrs.

16. The collection of linked information residing on computers which is accessible through Internet is called

- (A) HTTP
- (B) HTML
- (C) WWW
- (D) URL

17. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Biomass is considered as carbon neutral.

Reason (R): The amount of carbon they emit is equal to the amount of carbon they have consumed during their life-time.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

18. Given below are two statements:

Statement (I): Photovoltaic cells are often made up of crystal silicon.

Statement (II): Photovoltaic cells are also made up of inexpensive amorphous silicon, which is like ordinary glass and has no crystal properties.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

19. Hardness of water is caused by the presence of

- (A) Solid particles in the water
- (B) Pathogens in the water
- (C) Toxic metals in the water
- (D) Cations in the water

20. Which of the following represents learning as a six-level hierarchy in a cognitive domain?

- (A) Bloom's Taxonomy
- (B) SOLO Taxonomy
- (C) Brigg's Taxonomy
- (D) Gagne's Taxonomy

21. Match List I with List II:

List I (Educational Initiatives)	List II (Description)
(a) Rashtriya Uchchatar Shiksha Abhiyan	(I) Promote innovation of a higher order that directly impacts the needs of the industries

(b) Global Initiative on Academic Network	(II) Invite international faculties to give short term programmes to Indian students
(c) Uchchatar Avishkar Yojana	(III) Promote research in frontier areas of knowledge
(d) Scheme for Trans-disciplinary Research for India's Developing Economy	(IV) Improvement of access, equity and quality in higher education

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)  
 (B) (a)-(I), (b)-(IV), (c)-(II), (d)-(III)  
 (C) (a)-(IV), (b)-(II), (c)-(I), (d)-(III)  
 (D) (a)-(I), (b)-(III), (c)-(IV), (d)-(II)

22. Who among the following established the central Hindu Girl's School at Banaras with the object of imparting western education to girls?

- (A) Annie Besant  
 (B) Sarojini Naidu  
 (C) Raja Ram Mohan Roy  
 (D) Ishwar Chandra Vidyasagar

23. \_\_\_\_\_ are text files with small pieces of data and are used to identify specific users and improve the web browsing experience.

- (A) Cookies  
 (B) Bookmarks  
 (C) Blogs  
 (D) Wikis

24. Hansa Mehta Committee was appointed by the National Council for Women's Education in 1962 with the purpose to:

- (A) carryout inspection of schools in rural areas.  
 (B) examine the differentiation of curriculum for boys and girls at all stages of education.  
 (C) establish science laboratories in universities.  
 (D) formulate policy for use of educational satellites for rural areas.

25. Which of the following pollutant causes aggravation of respiratory disease, and atmospheric discolouration?

- (A) Carbon monoxide  
 (B) Lead  
 (C) Nitrogen dioxide  
 (D) Ozone

26. Match List I with List II:

List I (Type of Communication)	List II (Description)
(a) Phatic	(I) Decoder becomes encoder
(b) Feedback	(II) Communication about communication



(c) Meta message	(III) Between equals
(d) Lateral communication	(IV) To greet

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(IV), (d)-(III)
- (B) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
- (C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
- (D) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)

27. Statement (I): Learning Management System (LMS) is used to provide a virtual environment for teachers and students.

Statement (II): LMS can be used for blended learning as well as for online learning.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

28. Which of the following statements are correct regarding Radio Frequency Identification (RFID) technology?

- (a) RFID refers to a wireless system comprising two components: tags and readers.
- (b) The reader is a device that has one or more antennas that emit radio waves and receive signals back from the RFID tag.
- (c) Passive RFID tags are powered by the reader and do not have a battery.

Choose the correct answer from the options given below:

- (A) (a), (b) and (c)
- (B) (b) and (c) only
- (C) (a) and (c) only
- (D) (a) and (b) only

29. There are 15 students in a class. The average age of the students and the teacher of the class is 15 years. The average age of the teacher and the students is 2 years more than that of students.

What is the age of the class teacher?

- (A) 48
- (B) 50
- (C) 43
- (D) 45

30. Given below are two statements:

Statement (I): Personal conversation is more effective than a broadcast speech.

Statement (II): The factor of personalisation makes the radio a more effective means of communication than a newspaper.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.

(D) Statement (I) is false but Statement (II) is true.

31. Which of the following models for curriculum evaluation considers three primary sources of curriculum namely students, society and subject matter reflecting the philosophy of education and psychology of learning.

- (A) CIPP model
- (B) Stake's model
- (C) Tyler's model
- (D) Scriven's model

32. Which of the following hardware components will lose data when the power to a computer is switched off?

- (a) Processor Registers
- (b) Cache Memory
- (c) SSD
- (d) RAM
- (e) ROM

Choose the correct answer from the options given below:

- (A) (b) and (d) only
- (B) (a), (c) and (d) only
- (C) (a), (b) and (c) only
- (D) (a), (b) and (d) only

33. Match List I with List II:

List I (Tests of Reliability)	List II (Description)
(a) Test and re-test	(I) Delivering a questionnaire in two parts, separately, to a sample group.
(b) Inter-rater	(II) Providing different versions of a questionnaire which are equivalent for respondents.
(c) Parallel forms	(III) The same test is conducted by different people,
(d) Split-half	(IV) The same test, over a period of time, is repeated.

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)
- (B) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
- (C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
- (D) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)

34. Homogeneity of opinion among groups of people is mostly caused by

- (A) Mass communication
- (B) Intra-personal communication
- (C) Inter-personal communication
- (D) Abstraction in communication

35. Three numbers are in the ratio of 2:5:6 and their sum are 663, Find the three numbers:

- (A) 107, 250, 306
- (B) 102, 250, 311
- (C) 102, 255, 306
- (D) 112, 250, 301

36. Which of the following types of assessment is done for giving grades/marks/credits to the students?

- (A) Formative
- (B) Integrative
- (C) Diagnostic
- (D) Summative

37. The Government of India in November 1948 appointed a University Education Commission under the Chairmanship of:

- (A) D. S. Kothari
- (B) Ms. Sucheta Kriplani
- (C) Dr. S. Radhakrishnan
- (D) Mrs. Annie Besant

38. Find the wrong term in the series given below:

5, 10, 17, 24, 37, 50, 65

- (A) 37
- (B) 17
- (C) 24
- (D) 50

39. Reducing the intensity of noise a factor of 10 will mean a reduction in noise level by

- (A) 10 dB
- (B) 20 dB
- (C) 3 dB
- (D) 6 dB

40. Given below are two statements:

Statement (I): To obvert a proposition, we change its quality and replace the predicate term with its complement.

Statement (II): Obversion is valid for any standard form categorical proposition.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

41. In research, middle range theories operate in a

- (A) Wider domain
- (B) Limited domain
- (C) Flexible domain
- (D) Representative domain

42. Which of the following Prāmānas (means of knowledge) is differentiated into Svārtha (for oneself) and Parārtha (for others) types?
- (A) Prātyakṣa (perception)
  - (B) Anumāna (inference)
  - (C) Upamāna (comparison)
  - (D) Śabda (verbal testimony)
43. The argument, 'Sound is eternal, because it is produced', is fallacious because:
- (A) Middle term is contradicted by another pramāna (means of knowledge).
  - (B) The middle term is too narrow.
  - (C) Middle term itself disproves the original proposition and proves its contradictory.
  - (D) The minor term is the locus of the middle term.
44. A shopkeeper professes to sell his goods on cost price but uses 750 gm instead of 1 kg. What is his gain in percentage?
- (A) 33
  - (B) 35.3
  - (C) 30.3
  - (D) 33.33
45. An example of a cyber exacerbated crime is
- (A) Cyber vandalism
  - (B) Cyber piracy
  - (C) Cyber stalking
  - (D) Cyber trespass

Read the given passage and answer the questions that follow

The 'new middle class' in India is upwardly mobile, educated mostly in English and works in professional, technical and/or managerial careers. It is connected to global networks of consumption, consuming global brands and aspiring toward lifestyles of conspicuous consumption. The identity of this class is defined by its participation in global commodity chains. The market defines the identity of the middle class, as a site of identity formation, expression and aspiration. Also salient within the new middle class are several strata. The highest stratum is occupied by the white collar corporate mid-to-high level managers who actively participate in transnational capitalism. What connects these various groups in the elite class is a common vision of the nation-state narrated in the miracle of the market. The articulation of the market as the centre of India's economic growth and development is the overarching anchor for the various discourses of the policy-making and implementation. The middle class in India make up a segment of India's elite. They participate in the consumption culture of India. This culture is enabled by rapid reforms and punctuated in the rise of urban hubs of belonging. Belonging in this is recrafted in the story of consumption and lifestyles. Here consumption is equated to development and modernisation.

46. The 'new middle class' is associated with
- (A) The production of global brands
  - (B) Market expansion
  - (C) Global capitalism
  - (D) White collar supremacy
47. The main theme of the passage is:
- (A) Market-driven middle-class identity

- (B) Need for high level consumption
  - (C) Negative effect of modernised consumption
  - (D) Emergence of knowledge enterprises
48. The elite class has a vision of the nation-state anchored by
- (A) Policy discourses
  - (B) Market miracle
  - (C) Limitless consumption
  - (D) Corporate narratives
49. The participation in global commodity chains has given the middle class its own
- (A) Identity
  - (B) Market
  - (C) Economic Status
  - (D) Upward mobility
50. The new middle class in India is hugely active in:
- (A) Adopting innovative lifestyles
  - (B) Acquiring new technical competence
  - (C) Redefining the business strategies
  - (D) Conspicuous consumption



### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	B	26	D
2	C	27	A
3	A	28	A
4	A	29	D
5	D	30	A
6	A	31	C
7	B	32	D
8	C	33	D
9	D	34	C
10	B	35	D
11	C	36	D
12	A	37	C
13	A	38	C
14	C	39	A
15	D	40	A
16	D	41	B
17	A	42	B
18	A	43	C
19	D	44	D
20	A	45	C
21	C	46	C
22	A	47	A
23	A	48	B
24	B	49	A
25	C	50	D

**30-10-2022 EVS\_ FN**

The following table presents data about the number of men, women and children and percentage (%) of overweight men, overweight women and overweight children in a city during the last six years from 2016 to 2021.

Year-wise Distribution of Population in a city

Year	Number of			Percentage (%) of Overweight		
	Men	Women	Children	Men	Women	Children
2016	27000	19000	7500	15%	36%	30%
2017	37500	32000	10500	7%	35%	28%
2018	31500	30000	6000	30%	25%	35%
2019	33000	27000	8000	16%	30%	30%
2020	35000	34000	10000	12%	27%	32%
2021	39000	37500	22500	37.50%	22%	36%

- What was the total number of children who were not overweight in the year 2016 and 2017 together?  
(A) 4530  
(B) 4350  
(C) 12810  
(D) 14820
- The number of overweight men in the year 2021 was what percent of the number of men who were not overweight in the same year?  
(A) 55%  
(B) 60%  
(C) 50.5%  
(D) 65.5%
- What was the ratio of the number of overweight women in the year 2018 to the number of overweight men in the year 2020?  
(A) 6:7  
(B) 21:65  
(C) 15:73  
(D) 25:14
- What was the difference between the number of overweight women and overweight children together in the year 2018 and the number of overweight men in the same year?  
(A) 150  
(B) 450  
(C) 345  
(D) 865
- What was the average of the number of men, women and children who were overweight in the year 2019?  
(A) 4812  
(B) 5016  
(C) 5395

(D) 5260

6. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): According to classical Indian Logicians (Naiyāyikas), all fallacies are material fallacies.

Reason (R): According to Nyāya, Syllogism is deductive-inductive and formal-material.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

7. Which of the following have been considered as threat to internal validity in research?

- (a) Randomisation
- (b) Generalisability
- (c) Maturation.
- (d) History
- (e) Instrumentation

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (b) and (e) only

8. Which among the following hazards can occur due to anthropogenic causes?

- (a) Cyclones
- (b) Nuclear Disaster
- (c) Floods
- (d) Volcanoes
- (e) Forest Fires

Choose the correct answer from the options given below:

- (A) (a), (b) and (d) only
- (B) (b), (c) and (d) only
- (C) (b), (d) and (e) only
- (D) (b), (c) and (e) only

9. Which of the following is NOT characteristic of a good question paper?

- (A) Objectivity
- (B) Subjectivity
- (C) Reliability
- (D) Validation

10. Match List I with List II:

List I (Concepts)	List II (Main Proponent)
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(a) Self-education through development of individuality.	(I) Sri Aurobindo
(b) Integral education	(II) Mahatma Gandhi
(c) Education to transform human mind	(III) Maria Montessori
(d) Basic education (Wardha Education System)	(IV) J. Krishnamurti

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(III), (c)-(IV), (d)-(II)  
 (B) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)  
 (C) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)  
 (D) (a)-(I), (b)-(IV), (c)-(II), (d)-(III)

11. Which of the following is envisaged in the Sustainable Development Goals?

- (A) By 2020, conserve at least 50% of coastal and marine areas.  
 (B) By 2030, reduce by one-third of the per capita global food waste at the retail and consumer levels.  
 (C) By 2030, double the global rate of improvement in energy efficiency  
 (D) By 2030, reduce by one-fifth the premature mortality from non-communicable diseases.

12. Dynamic approach to teaching means

- (A) Teaching should be lecture based.  
 (B) Teachers should be energetic.  
 (C) Teachers should be student friendly.  
 (D) Students should learn through activities.

13. In pursuance of the National Council of Teacher Education Act, 1993, NCTE was established in the year:

- (A) 1995  
 (B) 1993  
 (C) 1994  
 (D) 1996

14. Given below are two statements:

Statement (I): The new system of communication has facilitated the emergence of an interactive society.

Statement (II): The new system of communication is digital and has integrated multiple modes of communication through networks.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.  
 (B) Both Statement (I) and Statement (II) are false.  
 (C) Statement (I) is true but Statement (II) is false.  
 (D) Statement (I) is false but Statement (II) is true.

15. Given below are two statements:

Statement (I): The qualitative data are powerful because they are collected from very sensitive social, historical and temporal context.

Statement (II): Context sensitivity cannot be completely removed from the qualitative data

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

16. Find the missing number in the series:

2, 10, 30, 68, 130, 222, ?

- (A) 350
- (B) 352
- (C) 194
- (D) 104

17. A wise sage has said, "The hunger for knowledge is more difficult to remove than the hunger for food. Therefore, one should stick to the food." Which fallacy is committed in this argument?

- (A) Begging the Question
- (B) False Dilemma
- (C) Ignoratio elenchi (irrelevant conclusion)
- (D) Appeal to Emotion

18. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): Most cyclones cause widespread damage in coastal areas.

Reason (R): Energy of most cyclones increases after landfall.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

19. Given below are two statements:

Statement (I): An ethical framework of sustainable development provides normative guidance regarding our relationship with environment

Statement (II): Anthropocentric model is misleading as evident from its environmental consequences.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

20. Many computer users are worried about malware. Which of the following are two examples of malware?

- (a) Firewall
- (b) Worm
- (c) Router

(d) Virus

Choose the correct answer from the options given below:

- (A) (a) and (c) only
- (B) (a) and (b) only
- (C) (b) and (d) only
- (D) (c) and (d) only

21. Consider the following spreadsheet:

	A	B	C
1	4	3	
2	5	2	
3	7		
4	8		9
5	9		
6			

If the formula = \$A\$3 + B2 in cell C4 is copied to cell C5, then what is the value in cell C5?

- (A) 9
- (B) 8
- (C) 7
- (D) 17

22. Suggestions for communication with people from different cultures can be:

- (a) Emphasise your interpretation
- (b) Forget your own cultural identity
- (c) Promote an eco-system of mutual respect
- (d) Know the cultural context of other people
- (e) Always state facts

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (c), (d) and (e) only
- (C) (b), (c) and (e) only
- (D) (a), (d) and (e) only

23. Certain number of birds are sitting on two trees A and B. Birds sitting on tree A, tell to the birds sitting on tree B, that if 2 birds from tree B shift to the tree A, then we are equal in number. However, the birds sitting on tree B, tell those sitting on A, that if two birds from your side (tree A) shift to our side (tree B), then we become double than you (tree A) How many birds are sitting on the two trees A and B, respectively?

- (A) 8, 12
- (B) 10, 14
- (C) 14, 10
- (D) 5, 7

24. Which of the following are the principal components of the CPU of a computer system?

- (a) ALU (Arithmetic-Logic Unit)
- (b) CU (Control Unit)
- (c) Processor Registers

- (d) SSD (Solid-State Drive)
- (e) VRAM (Video RAM)

Choose the correct answer from the options given below:

- (A) (a), (b) and (d) only
- (B) (a), (b) and (c) only
- (C) (c), (d) and (e) only
- (D) (b), (c) and (d) only

25. Which among the following pesticides would have the least chance of bioaccumulation in food chains?

- (A) Chlordane
- (B) Aldrin
- (C) Carbaryl
- (D) Endrin

26. Some of the most notable universities that evolved during ancient period in India were situated at:

- (a) Takshashila
- (b) Vikramshila
- (c) Jagaddala
- (d) Odantapuri
- (e) Nalanda

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d) and (e) only
- (B) (a), (b) and (e) only
- (C) (a), (b), (c) and (e) only
- (D) (a), (b), (d) and (e) only

27. SWAYAM tries to take the best teaching-learning resources to all students through

- (A) Seminars
- (B) Video lectures
- (C) Classroom teaching
- (D) Conferences

28. Which of the following statements are true regarding Nyāya (Classical Indian School of Logic) view of hetrābhāsa (fallacy)

- (a) It means that middle term appears to be a reason but is not a valid reason.
- (b) All fallacies are material fallacies.
- (c) When an Inference is based not on causation but on uniformity of co-existence, it leads to a fallacy.
- (d) Fallacies occur when any of the five characteristics of a middle term are violated.

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (a), (b) and (d) only
- (C) (b), (c) and (d) only
- (D) (a), (b), (c) and (d) only

29. "We should value the Moon more than the Sun because the Moon shines when it is dark whereas the Sun shines when there is light anyway." This statement commits the fallacy of:  
(A) Appeal to Emotion  
(B) Fallacy of False Cause  
(C) False Dilemma  
(D) Equivocation
30. In a certain code, '467' means 'leaves are green', '485' means 'green is good' and '639' means 'they are playing'. Which digit stands for 'leaves' in that code?  
(A) 6  
(B) 7  
(C) 4  
(D) 9
31. Communication compatibility between individuals is rooted in  
(A) Stewardship  
(B) Interest in media  
(C) Empathy  
(D) External influence
32. Following are the characteristics of non-Conventional learning:  
(a) It is teacher oriented.  
(b) It is for improvement of quality.  
(c) It is cost effective.  
(d) It is linked to employment.  
(e) It is on campus.
- Choose the correct answer from the options given below:  
(A) (a), (b) and (c) only  
(B) (b), (c) and (d) only  
(C) (a), (c) and (d) only  
(D) (c), (d) and (e) only
33. Historical research has the limitation of  
(A) Problem identification  
(B) Analytical synthesis  
(C) Universal generalisation  
(D) Probable conclusions
34. The term 'Hermeneutics' is drawn from  
(A) Sociology  
(B) Theology  
(C) Anthropology  
(D) Economics
35. Number of bacteria in a container double in every one minute. If the container gets completely filled with bacteria in 30 minutes, then in how many minutes  $\frac{1}{4}$  of the container shall be filled with bacteria?  
(A) 15 minutes

- (B) 16 minutes
- (C) 28 minutes
- (D) 25 minutes

36. According to the revised Bloom's taxonomy, which of the following categories is considered to be highest for the learner?
- (A) Understand
  - (B) Apply
  - (C) Analyse
  - (D) Create
37. Arrange the following water bodies in increasing order of the quantity of freshwater they hold:
- (a) Ice and snow
  - (b) Freshwater lakes and reservoirs
  - (c) Groundwater
  - (d) Rivers and streams

Choose the correct answer from the options given below:

- (A) (d), (b), (c), (a)
- (B) (b), (c), (d), (a)
- (C) (b), (d), (a), (c)
- (D) (d), (b), (a), (c)

38. If the statement, 'Some plants are not carnivorous' is given as false, then which of the following could be immediately inferred from it?
- (a) 'Some plants are carnivorous' is true
  - (b) 'Some plants are carnivorous' is false
  - (c) 'No plants are carnivorous' is false
  - (d) 'All plants are carnivorous' is true

Choose the correct answer from the options given below:

- (A) (b), (c) and (d) only
- (B) (a) and (d) only
- (C) (a) and (c) only
- (D) (a), (c) and (d) only

39. Which of the following are the advantages of grapevine communication?
- (a) Smooth float of adverse comments
  - (b) Knowing the morale in the organisation
  - (c) Spread of propagandist views
  - (d) To know the important issues faced by the employees
  - (e) Assessment of employee anxieties

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (d), (c) and (e) only
- (D) (b), (d) and (e) only

40. Which of the following is NOT correct regarding Digi locker, a key Initiative under 'Digital India' programme of Government of India?
- (A) Indian citizens who sign up for a Digi locker account get a dedicated cloud storage space that is limited to their Aadhar number.
- (B) It aims to eliminate the use of physical documents and provide access to their digital documents anytime, anywhere and share it online.
- (C) Citizens can self-upload documents and digitally sign them using the e-sign facility.
- (D) The slogan of Digi locker is "My documents, Anytime, anywhere."
41. In face-to-face communication, the non-verbal cues provided by the receiver, can be considered as
- (A) Feedback
- (B) Decoding
- (C) Physical noise
- (D) Symbolic representation

42. Match List I with List II:

List I (Research Perspective)	List II (Discipline)
(a) Phenomenology	(I) Anthropology
(b) Ethnography	(II) Sociology
(c) Ethnopedology	(III) Social psychology
(d) Symbolic interaction	(IV) Philosophy

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)
- (B) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
- (C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
- (D) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)
43. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R):
- Assertion (A): MOOCs on the SWAYAM portal can be used for earning up to 40% credits per semester by students.
- Reason (R): All MOOCs on the SWAYAM portal are credit-based MOOCs
- In light of the above statements, choose the correct answer from the options given below:
- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.
44. Which of the following is not an essential component required for video-conferencing system?
- (A) Video Camera
- (B) Display Device
- (C) Telephone
- (D) Microphone

45. The average age of students in a class was 15 years. When 5 new boys whose average age was 12 years 6 months were admitted in the class, the average age was reduced by 6 months. How many students were there in the class originally?
- (A) 15
  - (B) 20
  - (C) 18
  - (D) 16

Read the given passage and answer the questions that follow:

Marie Curie was a Polish-born physicist and chemist and one of the most famous scientists of her time. Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom. Together with her husband Pierre, she was awarded the Noble Prize for Physics in 1903.

Marie was born in Warsaw, Poland on 7 November 1867, the daughter of a Physics teacher. At an early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women. Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French University, where she earned her master's degree and doctorate in Physics.

Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse-drawn wagon in 1906. Marie was stunned by the horrible misfortune and endured heart-breaking anguish. Despondently, she recalled their close relationship and the joy that they had shared in scientific research. The fact that that she had two young daughters to raise by herself greatly increased her distress.

Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a Physics professor at the Sorbonne. She was the first woman to be given a professorship at the world-famous university. She received her second Noble Prize in Chemist for isolating radium, in 1911 Curie eldest daughter, Irene, was herself a scientist and winner of the Noble Prize for Chemistry.

Although Marie Curie eventually suffered a fatal illness from her long-term exposure to radium, she never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.

46. At what age did Marie Curie receive her first Nobel prize?
- (A) 36 years
  - (B) 46 years
  - (C) 56 years
  - (D) 44 years
47. The passage shows Marie Curie to be a great scientist who
- (A) was amiable in nature.
  - (B) had indomitable spirit and dedication to science.
  - (C) was emotionally vulnerable.



(D) became disillusioned after her husband's death.

48. What made Marie Curie study at Sorbonne University?

- (A) University in Warsaw did not allow her admission.
- (B) She wanted to work with Pierre Curie.
- (C) She wanted to work on Radium.
- (D) She did not enjoy learning at an early age in Warsaw.

49. Which of the following elements is widely used in treatment of Cancer?

- (A) Uranium
- (B) Radium
- (C) Thorium
- (D) Plutonium

50. After how many years of her marriage did Marie Curie lose her husband?

- (A) 11 years
- (B) 39 years
- (C) 28 years
- (D) 6 years

#### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	C	26	A
2	B	27	B
3	D	28	B
4	A	29	B
5	D	30	B
6	A	31	B
7	C	32	B
8	D	33	C
9	B	34	B
10	C	35	C
11	C	36	D
12	D	37	A
13	A	38	D
14	A	39	D
15	A	40	D
16	A	41	A
17	C	42	D
18	C	43	C
19	A	44	C
20	C	45	B
21	C	46	A
22	B	47	B
23	B	48	A
24	B	49	B
25	C	50	A

**12-10-2022 GEO\_FN**

The following table presents the details about the number of students enrolled in three different academic programmes namely, B.A, B.C.A. and B.B.A. in five different colleges (A-E) during the year 2020. Based on the data in the table, answer the questions 1-5:

College-wise enrolment of students

College	Academic programme		
	B.A.	B.C.A.	B.B.A.
A	275	350	425
B	300	325	475
C	325	300	325
D	450	375	425
E	325	425	225

- What is the respective ratio of total number of students studying in B.C.A. in the colleges C and E together to those studying in B.A. in the colleges A and B together?  
(A) 24:23  
(B) 25:27  
(C) 29:23  
(D) 29:27
- Number of students studying in B.A. in college B forms what percent of total number of students studying in all the programmes together in the same college? (rounded off to two digits after decimal)  
(A) 26.86%  
(B) 27.27%  
(C) 29.84%  
(D) 32.51%
- Number of students studying in B.B.A. in college C forms approximately what percent of the total number of students studying in B.B.A. in all the five colleges together?  
(A) 21%  
(B) 39%  
(C) 33%  
(D) 17%
- What is the respective ratio of total number of students studying in B.C.A., B.A. and B.B.A. in all the colleges together?  
(A) 71:67:75  
(B) 67:71:75  
(C) 71:68:75  
(D) 75:71:68
- What is the average number of students studying B.C.A. in all the five colleges together?  
(A) 365  
(B) 395  
(C) 330  
(D) 355

6. The Kaufman Assessment Battery for children contains P subtests across the various ages, but a maximum of Q subtest is administered to any one child, where (P. Q) = \_\_\_\_\_.  
(A) (10, 5)  
(B) (12, 8)  
(C) (16, 13)  
(D) (20, 15)
7. 'Scheme for Trans-disciplinary Research for India's Developing economy' was initiated by  
(A) CSIR  
(B) DST  
(C) ICSSR  
(D) UGC
8. With respect to Computers, BIOS is an acronym for:  
(A) Binary Input Output Source  
(B) Basic Input Output Support  
(C) Binary Input Output System  
(D) Basic Input Output System
9. What comes next in the following sequence?  
ET, JR, MP, PN, ?  
(A) SM  
(B) RM  
(C) SL  
(D) RL
10. Given below are two statements:  
Statement (I): The Nyaya system does not accept Arthapatti as an independent source of valid knowledge.  
Statement (II): The Nyaya system reduces Arthapatti to an inference of anvayi type.  
In the light of the above statements, choose the correct answer from the options given below:  
(A) Both Statement (I) and Statement (II) are true.  
(B) Both Statement (I) and Statement (II) are false.  
(C) Statement (I) is true but Statement (II) is false.  
(D) Statement (I) is false but Statement (II) is true.
11. Disaster management plan was launched by ministry of home affair in  
(A) 2005  
(B) 2011  
(C) 2016  
(D) 2020
12. Identify the formal fallacy committed in the argument:  
All criminals are human beings.  
All saints are human beings  
Therefore, all saints are criminals.  
(A) Fallacy of Illicit process of Major Term

- (B) Fallacy of Illicit process of Minor Term  
 (C) Fallacy of undistributed Middle Term  
 (D) Fallacy of Four Terms

13. Ramesh goes to North, then turns right, then turns right again and then goes to the left. In which direction is Ramesh in now?

- (A) North  
 (B) South  
 (C) East  
 (D) West

14. Match List I with List II:

List I (Name of Intelligence Test)	List II (Applicable to age group)
(a) WAIS-R	(I) for ages 3 to 7 $\frac{1}{2}$
(b) WISC-R	(II) for ages 6 to 16
(c) WPPSI-R	(III) for ages 16 to 74
(d) Kaufman-ABC	(IV) for ages 2 $\frac{1}{2}$ to 12 $\frac{1}{2}$

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(II), (c)-(I), (d)-(IV)  
 (B) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)  
 (C) (a)-(I), (b)-(IV), (c)-(III), (d)-(II)  
 (D) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)

15. Match List I with List II:

List I (Computer Terms)	List II (Description)
(a) OMR	(I) Used by banks to read codes on a cheque
(b) MICR	(II) prevents unauthorized access to a computer network
(c) RAM	(III) Marks multiple choice questions
(d) Firewall	(IV) Stores programs and data temporarily

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)  
 (B) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
 (C) (a)-(III) (b)-(I), (c)-(IV), (d)-(II)  
 (D) (a)-(I), (b)-(III), (c)-(IV), (d)-(II)

16. Every hour the number of bacteria in a sample doubles. If the original number of bacteria is 100, and 50 bacteria are removed every two hours, after five hours, there are

- (A) 2500 bacteria  
 (B) 2700 bacteria  
 (C) 1350 bacteria  
 (D) 2800 bacteria

17. For classroom testing, the length of the test will vary depending upon

- (a) Purpose of test  
 (b) Kinds of items used

- (c) Knowledge of subject teacher
- (d) Age and ability of the pupils tested
- (e) Instructional objective tested

Choose the most appropriate answer from the options given below:

- (A) (a), (b), (c), (d) only
- (B) (a), (c), (d) (e) only
- (C) (a), (b), (d), (e) only
- (D) (b), (c), (d), (e) only

18. A teacher, to be an effective communicator, should resort to

- (a) Acquisition of elitist background
- (b) Natural flow of information
- (c) Voluntary support to learning
- (d) A system of immediate and regular feedback
- (e) Convolved presentations

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (c), (d), (e) only
- (D) (a), (d), (e) only

19. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Geothermal energy is not a renewable source of energy.

Reason (R): The processes for extracting and using geothermal power are more akin to those for centralized fossil-fuels than the dispersed renewable supplies of the natural environment.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

20. Consider the following statements:

- (a) A train travelling 180 km/hr took 5.4 seconds to cross a stationary man. Length of the train is 250 m.
- (b) If a bus covers 172 km in 4 hours, the speed of the bus is 154.8 m/s.
- (c) If  $25X + 25Y = 110$ , the average of  $X$  and  $Y$  is 2.2.

Which of the above statements is/are correct?

- (A) (b) and (c) only
- (B) (a) and (b) only
- (C) (c) only
- (D) (a) and (c) only

21. The application of John Dewey's theory to communication issues in sequence is:

- (a) The criteria
- (b) The analysis

- (c) The selection and execution
- (d) The problem
- (e) The possible solutions

Choose the correct answer from the options given below:

- (A) (b), (c), (e), (d), (a) only
- (B) (c), (d), (b), (a), (e) only
- (C) (a), (c), (d), (e), (b) only
- (D) (d), (a), (e), (b), (c) only

22. Given below are two statements:

Statement (I): Dewey equated schools to communities and education to a social process.

Statement (II): Chomsky expressed that ultimate aim of education is production of individuals which are different from each other in terms of quality.

In the light of the above statements, Choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

23. Error can creep into interview data due to following factors:

- (a) Failure to record answers accurately
- (b) Influencing the response of the respondents
- (c) Interviewees are intelligent
- (d) Interviewer is able to explain the question well
- (e) Failure to establish appropriate interview environment

Choose the correct answer from the options given below:

- (A) (a), (b), (d) only
- (B) (a), (b), (e) only
- (C) (b), (c), (d) only
- (D) (c), (d), (e) only

24. Given below are two statements:

Statement (I): The ritualistic view of communication is that it is not used for the promotion of self-interest.

Statement (II): In contrast, the transmission mode of communication considers it as an instrumental act.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

25. What is the correct sequence of concentration of various components of producer gas?

- (a)  $CCCC_4$
- (b)  $CCCC_2$

- (c) CO  
(d)  $NN_2$

Choose the correct answer from the options given below:

- (A) (d) > (c) > (a) > (b)  
(B) (d) > (c) > (b) > (a)  
(C) (c) > (d) > (a) > (b)  
(D) (c) > (d) > (b) > (a)

26. Match List I with List II:

List I (Referencing Style)	List II (Format of Citation)
(a) APA Style	(I) Author, date .... (Sharma, Kailesh suggested photochromatic effect (2006))
(b) MLA Style	(II) (Author Surname, Year) .... (Sharma, 2006)
(c) Chicago Style	(III) Number in square brackets..... This theory was first put forward in 2006 [10]
(d) IEEE Style	(IV) Author name in text, allows footnotes.....Sharma develops this argument (67-69)

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)  
(B) (a)-(I), (b)-(III), (c)-(II), (d)-(IV)  
(C) (a)-(II), (b)-(IV), (c)-(I), (d)-(III)  
(D) (a)-(IV), (b)-(I), (c)-(III), (d)-(II)

27. Match List I with List II:

List I (Communication variety)	List II (Description)
(a) Paralanguage	(I) Objects and images with cultural context
(b) Proxemics	(II) Hesitation noise
(c) Colour	(III) Personal space
(d) Artifact	(IV) Different moods

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)  
(B) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
(C) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)  
(D) (a)-(I), (b)-(II), (c)-(IV), (d)-(III)

28. Given below are two statements with regard to social media:

Statement (I): 'Twitter' is the most well-known microblogging site.

Statement (II): 'YouTube' is the largest video sharing site.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.  
(B) Both Statement (I) and Statement (II) are false.

- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

29. Identify the fallacy committed in the following argument:

"An elephant is an animal; therefore, a small elephant is a small animal".

- (A) Argument from Ignorance
- (B) Fallacy of Irrelevant Conclusion
- (C) Fallacy of False Cause
- (D) Fallacy of Equivocation

30. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): In Samanyatodṛṣṭa inference the universal relation between the major and middle term depends on causal uniformity.

Reason (R): The middle term of the inference is related to the major term neither as a cause nor as an effect.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

31. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): In a valid categorical syllogism, if a term is distributed in the conclusion, then it must be distributed in the premises.

Reason (R): The conclusion of a valid argument cannot assert any more than is contained in the premises.

In the light of the above statements, Choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

32. National knowledge commission was established in the year

- (A) 1998
- (B) 2000
- (C) 2005
- (D) 2007

33. Which among the following are used as General Aptitude Tests?

- (a) Test of Cognitive Skills (TCS)
- (b) Otis-Lennon School Ability Test (OLSAT)
- (c) Metropolitan Achievement Test (MAT)
- (d) Boelim test of Basic Concepts-Revised (Boelim-R)
- (e) Thurstone test

Choose the correct answer from the options given below:



- (A) (a), (b), (c) only
- (B) (a), (b), (d) only
- (C) (b), (c), (d) only
- (D) (c), (d), (e) only

34. Which of the following characteristics pertains to non-conventional learning?

- (A) On campus education with fixed time
- (B) Teacher centered learning
- (C) Requirement of regular attendance
- (D) No fixed curriculum

35. Given below are two statements:

Statement (I): The length of a tree increases at the rate of 5% every year on its previous year's length. If it is 2.0 feet now, it will increase 0.31525 feet in three years.

Statement (II): A vendor sells an item for ₹56 making a profit of 40%. The cost price of the item is ₹40.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

36. If a researcher has to compare the means across three groups quantitatively, which among the following will be the most appropriate statistical technique for this purpose

- (A) Correlation analysis
- (B) Regression analysis
- (C) Chi-square test
- (D) Analysis of variance

37. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Education enables upward social economic mobility and is a key for escaping poverty. Over the past decade major progress was made towards increased access to education and enrolment at all levels particularly for girls.

Reason (R): The global pandemic has far reaching consequences that may jeopardize hard won gains made in improving school education.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

38. Given below are two statements:

Statement (I): If there are few extreme scores in the distribution, mode will be the most appropriate measure of central tendency.

Statement (II): Mean deviation is the most sophisticated measure of dispersion of distribution.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

39. Environmental problems associated with soils are

- (a) Nutrient leaching
- (b) Metal contamination
- (c) Salinity and Alkalinity
- (d) Ozone depletion
- (e) Fine aerosols in ambient air

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (e) only
- (B) (b), (c), (e) only
- (C) (a), (b), (c), (d) only
- (D) (a), (b), (c) only

40. Which of the following file formats are suitable for distributing video files across the internet?

- (a) .WMV
- (b) .WAV
- (c) .MIDI
- (d) .MP3
- (e) .MP4

Choose the correct answer from the options given below:

- (A) (a) and (d) only
- (B) (a) and (e) only
- (C) (d) and (e) only
- (D) (b) and (c) only

41. Identify the correct arrangement of the following storage capacities in the decreasing order

- (a) 10 Mega Bytes.
- (b) 10 Tera bytes
- (c) 10 Exa bytes
- (d) 10 Yotta bytes

Choose the correct answer from the options given below:

- (A) (d), (c), (b), (a)
- (B) (c), (d), (b), (a)
- (C) (c), (b), (d), (a)
- (D) (b), (c), (d), (a)

42. Mahadev Govind Ranade, Gopal Ganesh Agarkar, Gopal Krishna Gokhale were known to insist on the idea

- (A) Keep women unenlightened in order to preserve the superiority of men
- (B) Provide equal educational opportunities to both boys and girls, through co-educational Institutions
- (C) All domestic work should be done by women alone

(D) If women study science they would lose faith in religion

43. When the receiver assigns a meaning to a language symbol in communication, it is called

- (A) Response
- (B) Perception
- (C) Reverse labelling
- (D) Meaning mapping

44. Based on taxonomy of educational objectives, the ability to understand the meaning of material is known as \_\_\_\_\_.

- (A) Knowledge
- (B) Responding
- (C) Comprehension
- (D) Application

45. Which of the following are true about Joint Forest Management (JFM)?

- (a) Its concept was introduced through the Environment (Protection) Act, 1986
- (b) It involves both state forest department and local community
- (c) Women also participate in this
- (d) It varies from state to state and is known by different names in different languages

Choose the most appropriate answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (a), (c) and (d) only
- (D) (a), (b), (c) and (d)

Read the following passage and answer questions:

Walter Lippman refers to stereotypes as a projection on to the 'world'. Although he is not concerned primarily to distinguish stereotypes from modes of representation whose principal concern is not the world, it is important for us to do so, especially as our focus is representation in media fictions, which are aesthetic as well as social constructs. In this perspective, stereotypes are a particular sub-category of a broader category of fictional characters, the type. Whereas stereotypes are essentially defined by their aesthetic function, namely a mode of characterisation in fiction. The type is any character constructed through the use of a few immediately recognisable and defining traits, which do not change or 'develop' through the course of the narrative and which point to general, recurrent features of the human world. The opposite of the type is the novelistic character, defined by a multiplicity of traits that are only gradually revealed to us through the course of the narrative, a narrative which is hinged on the growth or development of the character and is thus centered upon the latter in her or his unique individuality, rather than pointing outwards to a world. In any society, it is the novelistic character that is privileged over the type, for the obvious reason that the society's privileges at any rate, at the level of social rhetoric the individual over the collective or the mass. For this reason, the majority of fictions that address themselves to general social issues tend nevertheless to end up telling the story of a particular individual, hence returning social issues to purely personal and psychological ones. Once we address ourselves to the representation and definition of social categories, for example, alcoholics, we have to consider what is at stake in one mode of characterization than another.

46. Why the novelistic character is privileged over the type?

- (A) Due to the demand of the narrative

- (B) Because of single definable trait
  - (C) As it is part of a sub-category called stereotype
  - (D) Because of preference of social rhetoric to the individual.
47. Most novelists, while addressing social issues, prefer fictionalisation of
- (A) The masses
  - (B) Social sub-categories
  - (C) Social privileges
  - (D) Personal issues
48. Any character in the type will reflect
- (A) The illusory world
  - (B) The changeable traits of individuals
  - (C) The unchangeable traits of individuals
  - (D) The sub-categories of representation
49. Stereotypes are characterized by
- (A) Immediate recognition of people
  - (B) Fictional narration
  - (C) Absence of social constructs
  - (D) Broadness of function
50. Representations that appear in the media fictions are
- (A) Aesthetic constructs
  - (B) Reflection of real world
  - (C) Defining characters
  - (D) Materialistic characterisation

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	C	26	C
2	B	27	A
3	D	28	A
4	A	29	D
5	D	30	D
6	C	31	A
7	D	32	C
8	D	33	B
9	CANCEL	34	D
10	C	35	A
11	C	36	D
12	C	37	B
13	C	38	B
14	A	39	D
15	C	40	C
16	B	41	A
17	C	42	B
18	B	43	C
19	D	44	C
20	C	45	B
21	CANCEL	46	D
22	C	47	D
23	B	48	C
24	A	49	B
25	B	50	A

**10-10-2022 HIS\_ FN**

The following table shows the percentage (%) distribution of the total population of six cities A-F and percentage (%) of adult population among them. The population of city A is 257400.

City-Wise Distribution of Population

City	(%) Distribution of Population	(%) Adult
A	23.4%	77%
B	21.6%	68%
C	8.4%	73%
D	18.9%	75%
E	17.5%	69%
F	10.2%	72%

- Non-adult population of City F is  
(A) 33448  
(B) 32040  
(C) 30102  
(D) 31416
- Population of City D is approximately \_\_\_\_\_ more than the population of City E  
(A) 8%  
(B) 10%  
(C) 14%  
(D) 16%
- Adult population of City C is  
(A) 67452  
(B) 68264  
(C) 66266  
(D) 69268
- Population of City A as a percentage of population of City D is, approximately:  
(A) 118%  
(B) 124%  
(C) 125%  
(D) 127%
- Adult population of City B and City C together as a percentage of the population of all six cities together is, approximately  
(A) 18%  
(B) 21%  
(C) 25%  
(D) 27%
- In the Four-Quadrant format of MOOCs, which of the following facilitates interactions amongst learners and course coordinators?  
(A) Videos

- (B) Assessments
- (C) Reading material
- (D) Discussion forum

7. Which of the following are the characteristics of case study research?

- (a) It is simulated in a laboratory.
- (b) It is particularistic.
- (c) It is descriptive.
- (d) It is inductive.
- (e) It is disruptive.

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (b) and (e) only

8. Which of the following pollutants is considered as surrogate for eye irritation?

- (A) Nitrogen dioxide
- (B) Sulphur dioxide
- (C) Carbon monoxide
- (D) Ozone

9. Given below are two statements:

Statement (I): To address inter-state variations at all levels of Education, it was brought on to the Concurrent list in the Constitution in 1976.

Statement (II): The institutions approved under State Legislative Act are not empowered to award degrees.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

10. Match List I with List II:

List I (OVERTEND)	List II (OVERSE)
(a) All S is P	(I) Some S is non-P
(b) No S is P	(II) No S is non-P
(c) Some S is P	(III) All S is non-P
(d) Some S is not P	(IV) Some S is not non-P

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(III), (c)-(IV), (d)-(II)
- (B) (a)-(II), (b)-(III), (c)-(I), (d)-(IV)
- (C) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
- (D) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)

11. Which of the following scales of measurement is synonymous to ranking or grading?

- (A) Nominal scale
- (B) Ordinal scale
- (C) Interval Scale
- (D) Ratio Scale

12. Which of the following are broad functions of an Operating System in computers?

- (a) Handling of files and folders
- (b) Converting from high-level language to low-level language
- (c) Interfacing between user and hardware
- (d) Helping to run application software

Choose the correct answer from the options given below:

- (A) (a), (c) and (d) only
- (B) (b), (c) and (d) only
- (C) (a) and (c) only
- (D) (a), (b), (c) and (d)

13. Given below are two statements:

Statement (I): Biodiesel can reduce Sulphur emissions significantly in comparison to gasoline.

Statement (II): Energy density of biodiesel is much less than that of ethanol.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

14. Which of the following are the key features of linear model of communication?

- (a) One-way communication
- (b) Manipulated feedback
- (c) Absence of noise
- (d) Used for mass communication
- (e) Sender-centric communication

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (d), (c) and (e) only
- (D) (a), (d) and (e) only

15. Match List I with List II:

List I (Ethical Issue in Information Technology)	List II (Description)
(a) Privacy	(I) Responsibility of data collector to ensure accuracy
(b) Accuracy	(II) Responsibility of collector data to control access
(c) Property	(III) Collection and use of data about individuals



(d) Accessibility	(IV) Data ownership and Software Usage Rights
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Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)
- (B) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)
- (C) (a)-(I), (b)-(III), (c)-(II), (d)-(IV)
- (D) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)

16. The phenomenological interpretation in communication involves

- (A) Collective experience
- (B) Secondary experience
- (C) Personal experience
- (D) Indirect experience

17. Given below are two statements:

Statement (I): The contents of most forms of RAM are volatile, thus making them unsuitable for long term data storage.

Statement (II): Hard disk has faster access of data in comparison to RAM as well as processor registers.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

18. Who among the following was the Chairperson of the Committee setup by the National Council for Women Education in 1962 to examine the differentiation of curriculum for boys and girls at all stages of education?

- (A) Bhaktavatsalam
- (B) Hansa Mehta
- (C) Durgabai Deshmukh
- (D) Margaret Cousins

19. The average of prime numbers between 1 and 20 is:

- (A) 9.525
- (B) 8.625
- (C) 9.625
- (D) 8.525

20. Which of the following is a graphical tool for organising and representing knowledge?

- (A) Concept maps
- (B) Lesson plan
- (C) Summary
- (D) Diagram

21. An analysis of the subject's life for meaning has the focus of

- (A) Structuralism
- (B) Pragmatism

- (C) Sociology
- (D) Phenomenology

22. Computers have evolved from the early mainframes to the relatively small smart devices with high computing power used today. Which of the following inventions contributed to reduce the physical size of computers?
- (A) Vacuum tube
  - (B) Integrated circuits
  - (C) Registers
  - (D) Solid state memory
23. Which of the following statements are true regarding Nyāya logic?
- (a) Inference is from the universal to the particular only.
  - (b) Inference is from the particular to the universal only.
  - (c) Inference is from the particular to the particular only.
  - (d) Inference is from the particular to the particular through the universal.

Choose the correct answer from the options given below:

- (A) (d) only
- (B) (a) only
- (C) (a) and (b) only
- (D) (b) and (d) only

24. Which of the following inferences are based on causation according to Nyāya view of inference?
- (a) Inferring future rain from the dark clouds
  - (b) Inferring past rain from the swift muddy water in the river
  - (c) Inferring cloven hoofs of an animal by its horns
  - (d) When we infer somebody's existence outside of his house since the person is not concurrently present in his house

Choose the correct answer from the options given below:

- (A) (a) and (c) only
- (B) (c) and (d) only
- (C) (a) and (b) only
- (D) (b) and (c) only

25. Find the next term in the series given below:

4, 16, 8, 64, 12, 256, 16, 1024, 20, ?

- (A) 4096
- (B) 24
- (C) 320
- (D) 4100

26. Given below are two statements:

Statement (I): Global warming could lead to increased release of the greenhouse gas, Methane.

Statement (II): There is a large amount of Methane currently frozen in the permafrost in the far northern regions of the world.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

27. Which of the following are included in a research article?

- (a) Introduction
- (b) Data
- (c) Data analysis and results
- (d) Foreward
- (e) Letter of recommendation

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (b) and (e) only

28. Match List I with List II:

List I (Educational Agencies (Acronyms))	List II (Educational Domains)
(a) NIOS	(I) Teacher Education
(b) NCTE	(II) Technical Education
(c) AICTE	(III) Vocational Education
(d) NCVT	(IV) Distance Education

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)
- (B) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)
- (C) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
- (D) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)

29. Which logical informal fallacy is committed in the following argument?

“The maths teacher said that there was to be no talking during the test. So, it is fair that Chandni had points deducted for asking to go to the washroom because she felt sick”

- (A) Appeal to force
- (B) Appeal to emotion
- (C) Appeal to authority
- (D) Fallacy of accident

30. If ‘BEAUTIFUL’ is coded as ‘ADZTSHETK’ in some coding scheme, then how will ‘HANDSOME’ be coded in the same scheme?

- (A) GBMETOLD
- (B) GZMCRNLD
- (C) IZMCRPNF
- (D) IBMCTPNF

31. Given below are two statements:

Statement (I): Exploratory research is conducted for data indications.

Statement (II): The goal of exploratory research is to gather final data to find out causality.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

32. Which of the following statements is/are correct?

- (a) Digital governance has been legalized by the IT Act (2000) in India.
- (b) IT Act is a watershed in conceptualizing administrative reforms in India.
- (c) Digital governance is a boon in curbing bureaucratic red-tapism.

Choose the correct answer from the options given below:

- (A) (b) and (c) only
- (B) (b) only
- (C) (a) and (c) only
- (D) (a), (b) and (c)

33. Population census can be an example of

- (A) Historical Study
- (B) Case Study
- (C) Longitudinal Study
- (D) Experimental Study

34. The National Education Policy, 2020 envisages that all higher education institutions will be incentivized, supported and mentored and shall aim to become autonomous, and have an empowered Board of Governors by the year

- (A) 2025
- (B) 2030
- (C) 2035
- (D) 2040

35. Which of the following is a learner-centered method?

- (A) Inquiry approach
- (B) Lecture method
- (C) Demonstration method
- (D) Team teaching

36. Given below are two statements:

Statement (I): Pesticides such as DDT are particularly disruptive to food chains.

Statement (II): Pesticides are very persistent and soluble in water.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

37. If the selling price of 10 articles is equal to the cost price of 15 articles, what is the profit percentage?
- (A) 50  
(B) 40  
(C) 45  
(D) 33.33
38. If the statement, 'All human beings are mortal' is given as true, which of the following can be inferred from it to be true?
- (A) Some human beings are mortal.  
(B) No mortals are non-human beings.  
(C) Some non-mortals are human beings.  
(D) Some non-human beings are not mortal.
39. Given below are two statements:  
Statement (I): Non-verbal signals are used to emphasize and support the verbal communication.  
Statement (II): Non-verbal signals are not a substitute for verbal communication.  
In light of the above statements, choose the correct answer from the options given below:
- (A) Both Statement (I) and Statement (II) are true  
(B) Both Statement (I) and Statement (II) are false  
(C) Statement (I) is true but Statement (II) is false  
(D) Statement (I) is false but Statement (II) is true
40. A teacher can have a satisfying teaching profession when s/he
- (A) is more qualified than his/her colleagues.  
(B) is close to higher authorities.  
(C) has good control over the students.  
(D) commands respect from the students.
41. In communication, the test of parsimony will have the element of
- (A) Logical simplicity  
(B) Complex validity  
(C) Susceptible generalisability  
(D) Abstraction
42. The substance that slows down the neutrons to have controlled chain reaction during nuclear energy production is called as
- (A) Controller  
(B) Inhibitor  
(C) Moderator  
(D) Reducer
43. A certain sum of money on a certain annual rate of interest becomes ₹1008 in 2 years and ₹1164 in  $3\frac{1}{2}$  years. Find the sum and the annual rate of interest
- (A) ₹800, 12%  
(B) ₹875, 12.5%  
(C) ₹850, 12%  
(D) ₹800, 13%

44. The expenditure on the research and innovation in India, at present, is only \_\_\_\_% of GDP.

- (A) 0.20%
- (B) 0.69%
- (C) 1.31%
- (D) 2.14%

45. Match List I with List II:

List I (Discipline)	List II (Focus of Communication Process)
(a) Anthropology	(I) Motivation
(b) Sociology	(II) System
(c) Psychology	(III) Culture
(d) Management	(IV) Society

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
- (B) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
- (C) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)
- (D) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)

Read the following passage and answer questions from 46 to 50.

Scholars refer to the western perception of Third World societies. They discuss the same when raising the questions of who produces knowledge about Third World women.

An Indian scholar has discovered that women in the Third World are represented in most feminist literature on development as having 'needs' and 'problems' but few choices and no freedom to act. What emerges from such modes of analysis is the image of an average Third World woman constructed through the use of statistics and certain categories. It is said that an average Third World woman leads an, essentially truncated life based on her feminine gender and her being 'third world' - ignorant, poor, uneducated, tradition bound, domestic, family oriented and victimised. This is in contrast to the self-representation of western women as educated, modern with freedom to make their own decisions. These representations assume western standards as the benchmark against which to measure the situation of Third World women.

The result is paternalistic attitude on the part of western women toward their Third World counterparts. It is perpetuation of the hegemonic idea of west's superiority. It is in this process of homogenisation and systematisation of the oppression of women in the Third World, that power is exercised in much of the western feminist discourse. This power needs to be redefined, because of its subjective nature of interpretation.

46. The western feminist literature looks at Third World women with

- (A) In-depth knowledge of their issues
- (B) An urge to liberate them
- (C) The need to enforce universal values
- (D) Western standards as real benchmarks

47. The western women consider themselves as

- (A) Saviours of oppressed women
- (B) Agents of homogenisation

- (C) Modern and free
- (D) Equally exploited like Third World women

48. The passage is critical of
- (A) The submissive Third World women
  - (B) Modernised western women
  - (C) Hegemonic ideas of western superiority
  - (D) Homogenisation of feminist discourse
49. The Third World women have an image constructed through the parameters of
- (A) Compassionate representation
  - (B) Quantification and categorisation
  - (C) Geographical proximation
  - (D) Familial issues
50. The Western feminist literature depicts Third World women as having
- (A) Fewer choices and no freedom
  - (B) Greater support from external influences
  - (C) Benefits of modernisation
  - (D) Become amenable to western influence



### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	D	26	A
2	A	27	A
3	A	28	A
4	B	29	D
5	B	30	B
6	D	31	C
7	B	32	D
8	D	33	C
9	C	34	C
10	C	35	A
11	B	36	C
12	A	37	A
13	C	38	A
14	D	39	C
15	A	40	D
16	C	41	A
17	C	42	C
18	B	43	D
19	C	44	B
20	A	45	B
21	D	46	D
22	B	47	C
23	A	48	C
24	C	49	B
25	A	50	A



**11-07-2022 LBS\_ FN**

The following table shows the number of persons (in Thousands) who got affected by 'COVID-19' pandemic in five different cities (A-E) of India and also presents the ratio of affected male to female in them. Based on the data in the table, answer the questions 1-5:

City-wise Persons Affected by COVID-19

City	Number of Affected (in Thousands)	Ratio of Affected
		Male: Female
A	64	5:3
B	54	5:4
C	16	3:1
D	48	7:5
E	27	2:1

- Number of male persons affected by 'COVID-19' in City 'B' is what percent more or less than that of number of male persons from City 'A' who were affected by 'COVID-19'?  
 (A) 25% less  
 (B) 30% less  
 (C) 25% more  
 (D) 20% less
- Find the average number of females who were affected by 'COVID-19' in all the five cities.  
 (A) 14200  
 (B) 12600  
 (C) 16200  
 (D) 12200
- In the context of City 'D', if out of total affected males,  $16\frac{2}{3}\%$  are in the age group of 21-25 years,  $33\frac{1}{3}\%$  are in the age group of 26-30 years and rest are in the age group above 30 years, then find the total number of males from City 'D' who are affected by 'COVID-19' having age of 21-30 years:  
 (A) 16000  
 (B) 14000  
 (C) 12000  
 (D) 18000
- What is the difference between total number of males in cities 'B', 'C' and 'E' together and total number of females in Cities 'A', 'C' and 'D' together who are affected by 'COVID-19'?  
 (A) 15000  
 (B) 13000  
 (C) 12000  
 (D) 14000
- What is the ratio of number of females in City 'B' and number of females in City 'D' who are affected by 'COVID-19'?  
 (A) 2:5  
 (B) 4:5  
 (C) 5:6

(D) 6:5

## 6. Match List I with List II:

List I (National Coordinator)	List II (Mandate for development of MOOCs for SWAYAM)
(a) UGC-CEC	(I) Engineering Technical Courses
(b) NPTEL	(II) Certificate Courses
(c) AICTE	(III) UG and PG level non-technical courses
(d) IGNOU	(IV) Self-paced lifelong learning courses

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)  
 (B) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)  
 (C) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)  
 (D) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)

7. Which will you rate as a good 21<sup>st</sup> century teacher?

Teacher (a): Makes notes from various books and shares the xerox copy of notes to the students to learn on their own.

Teacher (b): Uses presentation tools and explains the concepts followed by discussion.

Teacher (c): Makes notes and writes the information on board and tells students to copy and rote-learn.

Teacher (d): Uses presentation embedded with graphic, videos and animation to explain the concept and discusses with students.

Teacher (e): Provides good quality videos before the class and discusses them in classroom.

Choose the correct answer from the options given below:

- (A) (d) and (e) only  
 (B) (a) and (b) only  
 (C) (b), (c) and (d) only  
 (D) (b), (d) and (e) only

## 8. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Flipped classroom is a learner-centric effective model for ICT enabled teaching-learning or blended learning.

Reason (R): Students learn concepts through videos and in classroom, teacher-guided discussions and problem solving is done in face-to-face mode.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).  
 (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).  
 (C) (A) is correct but (R) is not correct.  
 (D) (A) is not correct but (R) is correct.

## 9. As per copyright laws, 'Fair-use' allows the limited use of copyright works for

- (A) Commercial use  
 (B) Educational purpose

- (C) Making videos
- (D) Making paid online course

10. How many modules of e-content in four quadrant formats are to be made for covering the syllabi for one MOOC of 4 credits?
- (A) 20-30 modules
  - (B) 30-35 modules
  - (C) 35-40 modules
  - (D) 40-50 modules
11. When it comes to data arrangement, qualitative research- must guard against the error of
- (A) Segregation
  - (B) Reduction
  - (C) Expansion
  - (D) Control
12. Which of the following are advantages of personal interviews for research data?
- (a) Personal appearance does not influence the respondent.
  - (b) Training the field staff is inexpensive.
  - (c) The method is flexible.
  - (d) It permits greater depth.
  - (e) The identity of the respondent can be controlled.

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (a), (c), (d) only
- (C) (b), (d), (e) only
- (D) (b), (c), (d) only

13. Which one of the following is parent organization of SCOPUS?
- (A) American Chemical Society
  - (B) Thomson Reuters
  - (C) Springer
  - (D) Elsevier
14. Given below are two statements:  
Statement (I): Multivariate studies demand larger samples than univariate studies.  
Statement (II): Multivariate studies do not analyse the data sets involving several responses.  
In the light of the above statements, choose the correct answer from the options given below:
- (A) Both Statement (I) and Statement (II) are true.
  - (B) Both Statement (I) and Statement (II) are false.
  - (C) Statement (I) is true but Statement (II) is false.
  - (D) Statement (I) is false but Statement (II) is true.
15. In the context of Research Methodology, what does the word Ontology refer to?
- (A) Concepts and categories, their properties and relationships
  - (B) Research papers and journals and their citation
  - (C) Cancers, diseases and their treatments
  - (D) A word indexing method

16. An effectively communicative teacher will ensure
- (A) Uniformity in learning
  - (B) Student-learning outcomes
  - (C) Changes in personal ideals
  - (D) Cultural integration
17. In communication, interpretation of the message depends upon
- (a) Transmission speed
  - (b) Type of channel
  - (c) Order of information
  - (d) Content character

Choose the most appropriate answer from the options given below:

- (A) (a) and (b) only
  - (B) (b) and (c) only
  - (C) (c) and (d) only
  - (D) (a) and (d) only
18. In terms of communication, a photograph is considered as a/an
- (A) Balanced text
  - (B) Complex text
  - (C) Open text
  - (D) Closed text

19. Given below are two statements:

Statement (I): Lack of vocabulary can be a serious deficiency in communication.

Statement (II): One's vocabulary needs not be too complex or simple for communication.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

20. Match List I with List II:

List I (Communication Codes)	List II (Description)
(a) Operational	(I) Collective perception
(b) Natural	(II) Rules of appearance
(c) Ideological	(III) Practices of production
(d) Presentational	(IV) Realistic

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
  - (B) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)
  - (C) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)
  - (D) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
21. Find the missing term in the sequence given below:

1, 4, 27, 16, ?, 36, 343, .....

- (A) 64
- (B) 51
- (C) 52
- (D) 125

22. A person deposited some money at a simple interest rate for 3 years. Had he deposited the money at 2% higher rate, it would have fetched Rs. 360 more. Find the amount of the money deposited.

- (A) 5000
- (B) 4600
- (C) 6000
- (D) 6100

23. What is the average of first 40 natural numbers?

- (A) 20
- (B) 21
- (C) 21.5
- (D) 20.5

24. After getting two successive discounts, a shirt with a list price of Rs.150 is available at Rs.105. If the value of second discount is 12.5%, what is the value of the first discount?

- (A) 25%
- (B) 20%
- (C) 20.5%
- (D) 15.5%

25. A man takes 6 hours 30 minutes in going by a cycle and coming back by scooter. He would have lost 2 hrs, and 10 minutes by going on cycle both ways. How long would it take him to go by scooter both ways?

- (A) 4 hrs., 20 minutes
- (B) 8 hrs., 40 minutes
- (C) 13 hrs.
- (D) 5 hrs., 20 minutes

26. In classical square of opposition if 'Some S is P' is given as false then which of the following could be immediately inferred from it?

- (a) 'All S is P' is false
- (b) 'All S is P' is undetermined
- (c) 'No S is P' is undetermined
- (d) 'No S is P' is true
- (e) 'Some S is not P' is true

Choose the correct answer from the options given below:

- (A) (b), (d), (e) only
- (B) (a), (c), (e) only
- (C) (b), (c), (e) only
- (D) (a), (d), (e) only

27. Which of the following Fallacy involves defective Induction?

- (A) Fallacy of Composition

- (B) Fallacy of Division
- (C) The Argument from Ignorance
- (D) Irrelevant Conclusion

28. Given below are two statements:

Statement (I): Analogical reasoning is based on a likeness drawn between two or more entities in one or more respects.

Statement (II): There could be argumentative as well as nonargumentative uses of analogy.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

29. According to Classical Indian School of Logic (Nyāya) which of the following conditions must be fulfilled by a true middle term (hetu)?

- (a) It must be found in minor term (pakṣa).
- (b) It must be found in all similar instances.
- (c) It should not be found anywhere where major term (sādhya) is absent.
- (d) The minor term in which it is said to exist should not be impossible.

Choose the most appropriate answer from the options given below:

- (A) (a), (c), (d) only
- (B) (a), (b), (d) only
- (C) (a), (b), (c), (d) only
- (D) (a), (b), (c) only

30. In which of the following means of knowledge a hitherto unseen object is known through cognition of its similarity in some respects with an already seen object when one comes across that hitherto unseen object?

- (A) Perception (Prātyakṣa)
- (B) Non-Cognition (Unupalabdhi)
- (C) Comparison (Upmāna)
- (D) Postulation (Arthāpatti)

31. With respect to information technology, which statement best describes 'Cache Memory'?

- (A) USB memory connected to a computer to increase its storage space.
- (B) An area of memory that contains settings for operating the computer.
- (C) An area of the hard disk that is used when there is insufficient RAM.
- (D) High-speed memory that is included in devices to improve response time.

32. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): E-Governance is regarded as the ICT-enabled system in achieving Good Governance.

Reason (R): Empathy is one of the desirable characteristics of e-Governance.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).

- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).  
(C) (A) is true but (R) is false.  
(D) (A) is false but (R) is true.
33. If you have a storage device with a capacity of 16 gigabytes, then how many 32 kilobytes files can you fit in that device? (1KB = 1024 bytes)  
(A)  $2^{18}$   
(B)  $2^{19}$   
(C)  $2^{20}$   
(D)  $2^{14}$
34. In the history of computing, Moore's Law says that the number of Integrated Circuit (IC) Chips in a Computer doubles every two years, which implies that computers become twice as powerful every two years. According to Moore's Law, how many years from now will Computers be 32 times more powerful as they are now?  
(A) 5 years  
(B) 10 years  
(C) 12 years  
(D) 8 years
35. Which of the statements given below are correct?  
An Integrated Circuit (IC) is a collection of several circuits (transistors) packed on a single chip. The invention of ICs in the history of computing led to:  
(a) increased reliability of computers.  
(b) reduced cost of computers (because they could be mass manufactured).  
(c) reduced size of computers.
- Choose the correct answer from the options given below:  
(A) (a) and (b) only  
(B) (b) and (c) only  
(C) (a) and (c) only  
(D) (a), (b) and (c)
36. Which one of the following is a chemical treatment process of waste water treatment?  
(A) Sedimentation  
(B) Neutralization  
(C) Aeration  
(D) Adsorption
37. Virus responsible for the spread of COVID 19 is  
(A) SARS COV 19  
(B) SARS COV II  
(C) CORONA 19  
(D) SARS COVI
38. 'Gobardhan' scheme aimed at Cattle and other biodegradable waste in rural India is being implemented by Department of Drinking Water and Sanitation in collaboration with the following organisations:  
(a) Ministry of New and Renewable Energy  
(b) Ministry of Petroleum and Natural Gas

- (c) Department of Rural Development
- (d) Ministry of Environment, Forest and Climate change
- (e) Department of Animal Husbandry and Dairying

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d) only
- (B) (a), (c), (d), (e) only
- (C) (a), (b), (c), (e) only
- (D) (b), (c), (d), (e) only

39. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): Photochemical smog causes eye irritation.

Reason (R): Photochemical smog has ozone as one of its constituents.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

40. Hurricanes are tropical cyclone with surface wind speeds in excess of about

- (A) 119 km/hour
- (B) 71 km/hour
- (C) 51 km/hour
- (D) 47 km/hour

41. Given below are two statements:

Statement (I): Value education is knowledge based and information oriented.

Statement (II): Value education is essential for holistic development of students.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

42. As per UGC guidelines (2021) for Multiple Entry and Exit in Academic programmes, the Academic Qualification Level 6 corresponds to

- (A) B.A./B. Sc (Hons/Research) degree
- (B) Master's degree
- (C) PG Diploma
- (D) Diploma

43. Identify the organisations/bodies which regulate Professional Education in the country.

- (a) Indian Council for Agriculture Research
- (b) Council for Scientific and Industrial Research
- (c) National Council for Vocational Education and Training



- (d) National Council for Teacher Education
- (e) Council of Architecture

Choose the correct answer from the options given below:

- (A) (a), (c), (d), (e) only
- (B) (a), (b), (c), (d) only
- (C) (b), (c), (d), (e) only
- (D) (a), (c), (d) only

44. In ancient times some of the most prosperous civilizations, which were strong knowledge-based societies, included

- (a) India
- (b) Egypt
- (c) Japan
- (d) Germany
- (e) Greece

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (e) only
- (B) (a), (b), (e) only
- (C) (a), (c), (e) only
- (D) (a), (b), (c), (d) only

45. During British rule in India who among the following observed that: "The Indian Universities turn out only a discontented horde of office seekers, whom we educated for places which are not in existence for them to fill".

- (A) Curzon
- (B) Annie Besant
- (C) Dalhousie
- (D) Macauley

Read the following passage and answer the questions:

In a very long historical perspective, political development has followed the same general pattern: the forms of political organisation employed by different groups of human beings have varied, and those forms that were more successful - meaning those that could generate greater military and economic power - displaced those that were less successful. At this high level of abstraction, it is hard to see how political development could have proceeded in any other way. What is more important, however, is to understand the ways political evolution differs from human evolution in three ways. First, in political evolution, the units of selection are rules and their embodiments as institutions, rather than genes of human evolution. Although human biology facilitates the formulation and following of rules, it does not determine their content, and that content can vary enormously. Rules are the basis for institutions that confer advantages on those societies employing them and are selected through the interaction of human agents over less advantageous ones. Second, in human societies, variation among institutions can be planned and deliberated, as opposed to random. Human beings can rarely plan for unintended consequences and missing information, but the fact that they can plan means that the variance in institutional forms they create is more likely to produce adaptive solutions than simple randomness. However, we can accept the argument that institutional evolution is not dependent on the ability of human beings to design successful institutions: random variation and the principle of selection by

themselves can produce an adaptive evolutionary outcome. The third way political development differs from human evolution is that the selected characteristics - institutions in one case, genes in the other are - transmitted culturally rather than genetically. This represents both an advantage and a disadvantage with respect to the adaptability of the system. Cultural traits, whether norms, customs, laws, beliefs or values, can at least in theory be altered on the fly within the space of a single generation, as in the spread of literacy among the Danish Peasantry in the sixteenth century.

46. Historically, the successful forms of political development were based on
- (A) General patterns of human evolution
  - (B) Variations in political organisations
  - (C) Groups of people with aspirational goals
  - (D) Military and economic power
47. The foremost stage of political evolution contained
- (A) Biological determination of norms
  - (B) Selection of political groups
  - (C) Institutionalisation of rules
  - (D) Understanding of political evolution
48. The variance in planned political institutions features
- (A) Simple randomness of selection
  - (B) Adaptive solutions
  - (C) Unintended consequences
  - (D) Absence of information
49. The transmission of select characteristics of political development is basically
- (A) Cultural
  - (B) Biological
  - (C) Rhetorical
  - (D) Unsocial
50. The inference to be drawn from the passage is that
- (A) People design their political evolution.
  - (B) Political evolution is the replica of human evolution.
  - (C) Rule based institutions are indispensable to society.
  - (D) Cultural traits cannot be organismic to political evolution.

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	A	26	D
2	C	27	C
3	B	28	A
4	C	29	C
5	D	30	C
6	B	31	D
7	D	32	C
8	A	33	B
9	B	34	B
10	C	35	D
11	A	36	B
12	CANCEL	37	B
13	D	38	C
14	C	39	B
15	A	40	A
16	B	41	D
17	C	42	D
18	C	43	A
19	A	44	B
20	D	45	A
21	D	46	D
22	C	47	C
23	D	48	B
24	B	49	A
25	A	50	A

**01-10-2022 MLM\_ FN**

The following table shows the number of students in each of the five classes (A-E) of a school and the percentage (%) of students in these classes who like to play cricket, tennis, handball and football. Based on the data in the table, answer the questions. (A student can play one or more games or no game at all)

Class-wise student's participation in sports.

Class	Number of students	Percentage (%) of students who like			
		Cricket	Tennis	Handball	Football
A	240	60%	70%	50%	60%
B	280	50%	60%	60%	50%
C	320	40%	65%	55%	45%
D	360	65%	75%	65%	55%
E	480	70%	80%	75%	45%

- The number of students in the school who like to play cricket is  
(A) 872  
(B) 864  
(C) 982  
(D) 1022
- The ratio of the number of students who like to play cricket in Class B to that of the number of students who like to play Football in Class C is  
(A) 36:35  
(B) 31:36  
(C) 35:37  
(D) 35:36
- If M is the number of classes in which more than 180 students like to play handball, then M=  
(A) 2  
(B) 3  
(C) 1  
(D) 0
- The maximum percentage of students in Class A who do not like to play any of the given four games can be  
(A) 40%  
(B) 10%  
(C) 50%  
(D) 30%
- The number of students who like to play Tennis in Class A is \_\_\_\_\_ % less than those who like to play Handball in Class E.  
(A) 40  
(B) 50  
(C) 53.33  
(D) 56.67

6. "I think you will find that this bail out is the best option before our organization, especially because disagreement may indicate that this company is not the right place for you" Which informal fallacy is committed in the above argument?

- (A) False alternative
- (B) Circular argument
- (C) Appeal to force
- (D) Appeal to inappropriate authority

7. Which of the following devices from the list A - E given below are output devices only?

- (a) Blu-Ray disc
- (b) Buzzer
- (c) Web-Cam
- (d) SSD
- (e) Laser printer

Choose the correct answer from the options given below:

- (A) (b) and (e) only
- (B) (a) and (d) only
- (C) (c) and (e) only
- (D) (e) only

8. India's disaster management plan is based on

- (A) Sendai Framework
- (B) Kyoto protocol
- (C) Rio summit
- (D) Montreal protocol

9. Which of the following is outside the preview of characteristics of learning?

- (A) Learning is a lifelong process
- (B) Learning is a temporary change in behaviour
- (C) Learning is prompted by individual needs
- (D) Learning is transferable

10. What are the key features of transactional model of communication?

- (a) Absence of noise
- (b) Extensively used in interpersonal communication
- (c) Feedback is a new message
- (d) Role exchange by encoder and decoder
- (e) Encoder and decoder discrimination is the order

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (c), (d), (e) only
- (D) (a), (d), (e) only

11. Blue hydrogen is produced by process of

- (A) Electrolysis
- (B) Steam reforming of natural gas or methane
- (C) Steam reforming of Bituminous coal

(D) Steam reforming of lignite

12. Which of the following are the advantages of distance education system?

- (a) Free education for all
- (b) Flexible system of education
- (c) Encourages earn and learn approach
- (d) No regular attendance is required
- (e) High and complex method of knowledge acquisition

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (c), (d), (e) only
- (D) (a), (d), (e) only

13. Which of the following statements are logically equivalent?

- (a) Some animals are birds.
- (b) Some birds are animals.
- (c) Some animals are not non-birds.
- (d) Some animals are non-birds.
- (e) Some non-birds are not non-animals.

Choose the most appropriate answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (a), (c) and (d) only
- (C) (b) and (c) only
- (D) (b), (c), (d) and (e) only

14. Two numbers are, respectively, 28% and 25% less than a third number. What percent is the first number of the second number?

- (A) 104.16%
- (B) 90%
- (C) 92%
- (D) 96%

15. Which of the following statements are true regarding Takshashila?

- (a) Indian Grammarian Panini had studied there.
- (b) Renowned Physician of ancient India Jivaka studied there.
- (c) Xuan Zang studied Yogashastra at Takshashila.
- (d) Chinese scholar I-Qing visited Takshashila in 7<sup>th</sup> Century CE.

Choose the most appropriate answer from the options given below:

- (A) (b) and (c) only
- (B) (a) and (d) only
- (C) (a), (b), (c) and (d)
- (D) (a) and (b) only

16. Given below are two statements about online search:

Statement (I): Google search results return the same information to anyone who enters the same keywords.

Statement (II): Search engines are gathering vast amounts of information about our searches and ourselves.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

17. Given below are two statements:

Statement (I): In synchronous mode, both teacher and learners are present at the same time.

Statement (II): Tutors in online spaces do not have the opportunity to show partiality and steadfastness towards knowledge.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

18. The daily income of three persons A, B and C is in the ratio of 2: 5: 11 and the income of B is Rs. 291 more than that of A. Find the income of C

- (A) Rs.679
- (B) Rs.1,746
- (C) Rs.1,067
- (D) Rs.1,256

19. Arrange the following in chronological sequences from the beginning to the last as per the year of their establishment

- (a) Indira Gandhi National Open University
- (b) Karnataka State Open University
- (c) Yashwantrao Chavan Maharashtra Open University
- (d) Nalanda Open University
- (e) Dr. B.R. Ambedkar Open University (Andhra Pradesh)

Choose the correct answer from the options given below:

- (A) (a), (c), (d), (b), (e)
- (B) (e), (a), (d), (c), (b)
- (C) (b), (c), (a), (e), (d)
- (D) (e), (d), (a), (b), (c)

20. Which of the following statements are contraries?

- (a) All men are mortal
- (b) Some men are mortal
- (c) Some men are not mortal
- (d) No men are mortal

Choose the most appropriate answer from the options given below:

- (A) (a) and (c) only
- (B) (b) and (c) only
- (C) (b) and (d) only
- (D) (a) and (d) only

21. Which of the following are Sustainable Development Goals (SDGs)?

- (a) Life below water
- (b) Life on land
- (c) Zero deforestation
- (d) Clean water
- (e) Clean Air

Choose the correct answer from the options given below:

- (A) (a), (c) and (d) only
- (B) (b), (c) and (e) only
- (C) (a), (b) and (d) only
- (D) (a), (b), (d) and (e) only

22. The sequence of zones in kinesics is

- (a) Personal
- (b) Intimate
- (c) Public
- (d) Social

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d)
- (B) (b), (c), (d), (a)
- (C) (c), (d), (a), (b)
- (D) (b), (a), (d), (c)

23. Match List I with List II:

List I (Name of the subject)	List II (Domain)
(a) Shiksha	(I) Metrics
(b) Kalpa	(II) Interpretation
(c) Chandas	(III) Phonetics
(d) Mīmāṃsā	(IV) Rituals

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
- (B) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)
- (C) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)
- (D) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)

24. A group consists of 3 males, 3 females and 5 children. The average age of the males is 50 years, that of females is 45 years and that of children is 10 years. What is approximate average age of the group?

- (A) 32.5



- (B) 30.45
- (C) 28.45
- (D) 31.45

25. In two-step flow of communication, messages pass through

- (a) Mass Media
- (b) Opinion leaders
- (c) Bureaucracy
- (d) Spiritual leaders

Choose the correct answer from the options given below:

- (A) (a) and (b)
- (B) (b) and (c)
- (C) (c) and (d)
- (D) (a) and (c)

26. Coding paradigm is extensively used in

- (A) Language analysis
- (B) Conversational analysis
- (C) Grounded theory research
- (D) Covert observation

27. Given below are two statements:

Statement (I): According to classical Indian School of Logic inference for oneself is called Svārtha Anumāna.

Statement (II): Svārtha Anumāna is syllogism and has to be presented in language

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

28. The analytic-induction strategy is a method of

- (A) Quantitative analysis
- (B) Qualitative analysis
- (C) Field observation
- (D) Participatory analysis

29. Suppose that the class grade for a six-week period is based on three tests ( $T_1, T_2, T_3$ ), each of which counts for 15%, four quizzes ( $Q_1, Q_2, Q_3, Q_4$ ), each of which counts for 10%, and a homework note book (HW), which counts for 15%. The grades are recorded in a spreadsheet similar to the one below.

	A	B	C	D	E	F	G	H	I	J
1	Name	$T_1$	$T_2$	$T_3$	$Q_1$	$Q_2$	$Q_3$	$Q_4$	HW	AVG
2	Jatin	87	92	80	76	79	87	74	90	
3	Amit	91	85	77	78	88	96	90	92	
4	Anil	65	72	70	80	81	74	77	80	
5	Anita	96	88	91	76	91	100	74	98	

Which of the following formulae would NOT be a correct calculation of the six-week weighted average for Jatin?

- (A)  $=B2*0.15+C2*0.15+D2*0.15+E2*0.1+F2*0.1+G2*0.1+H2*0.1+I2*0.15$   
 (B)  $=(B2+C2+D2+I2) *0.15+ (E2+F2+G2+H2) *0.1$   
 (C)  $=((B2+C2+D2+I2) *1.5+(E2+F2+G2+H2))/10$   
 (D)  $=(B2+C2+D2+I2)/15+(E2+F2+G2+H2)/10$

30. Which of the following are responsible for global cooling?

- (a) Halocarbons  
 (b) Stratospheric ozone  
 (c) Tropospheric ozone  
 (d) Sulphate aerosols  
 (e) Black carbon

Choose the most appropriate answer from the options given below:

- (A) (a), (b) and (d) only  
 (B) (b) and (d) only  
 (C) (b), (d) and (e) only  
 (D) (c) and (d) only

31. The NEP envisages the setting up of

- (A) Regional Research councils  
 (B) National Research Foundation  
 (C) National Research Commission  
 (D) National Research Regulatory Authority

32. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Experimenter's bias is a real issue at different phases of research.

Reason (R): A researcher can influence the results of a study by mistakes in observation and data entry, either intentionally or otherwise.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).  
 (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).  
 (C) (A) is correct but (R) is not correct.  
 (D) (A) is not correct but (R) is correct.

33. Find the next number in the series given below:

7, 10, 15, 22, 33, 46, ?

- (A) 61  
 (B) 68  
 (C) 55  
 (D) 63

34. Organochlorine pesticides such as DDT's human toxicity is comparatively lower. It is their impact on food chain that leads to acute human toxicity. Their properties that cause them to be impactful on food chain are

- (a) Persistence

- (b) Insolubility
- (c) Solubility
- (d) Polarity

Choose the most appropriate answer from the options given below:

- (A) (a) and (b) only
- (B) (a) and (c) only
- (C) (a), (b) and (d) only
- (D) (a), (c) and (d) only

35. Given below are two statements:

Statement (I): The transmission view of communication is both hegemonic and mechanistic.

Statement (II): The ritualistic view of communication emphasises the factors of commonality, communion and fraternity.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

36. The real basis of communication is

- (A) Peer pressure
- (B) Personal ambition
- (C) Common experience
- (D) Desire for divergence

37. Match List I with List II:

List I (Learner attributes)	List II (Meaning)
(a) Problem-solving	(I) The ability to reflect upon the meaning and analysing the facts
(b) Creative thinking	(II) The ability to address a problem for successful outcome
(c) Critical thinking	(III) The ability to look at things differently and find new ways of solving problems
(d) Decision making	(IV) The ability to select a course of action which would lead to desired outcome

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(III), (c)-(I), (d)-(IV)
- (B) (a)-(IV), (b)-(II), (c)-(I), (d)-(III)
- (C) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)
- (D) (a)-(IV), (b)-(III), (c)-(I), (d)-(II)

38. Given below are two statements:

Statement (I): A discrete variable can represent only finite set of values.

Statement (II): A continuous variable can be broken into subparts including fractions.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.  
 (B) Both Statement (I) and Statement (II) are false.  
 (C) Statement (I) is true but Statement (II) is false.  
 (D) Statement (I) is false but Statement (II) is true.

39. A dealer sold three-fourth ( $\frac{3}{4}$ ) of his articles at a gain of 20% and the remaining articles at the cost price. Find the gain earned by him in the whole transaction.  
 (A) 20%  
 (B) 18%  
 (C) 16%  
 (D) 15%

40. Match List I with List II:

List I (Computer Term)	List II (Description)
(a) Arithmetic and Logic unit (ALU)	(I) Stores part of the operating system currently in use
(b) Control Unit (CU)	(II) Carries out operations such as AND, OR, NOT
(c) Random Access Memory (RAM)	(III) Stores bootstrap loader and BIOS
(d) Read Only Memory (ROM)	(IV) Fetches and manages execution of each instruction in turn

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)  
 (B) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
 (C) (a)-(II), (b)-(IV), (c)-(I), (d)-(III)  
 (D) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)
41. Which of the following are included in the positivist paradigm of research?  
 (a) Quantification  
 (b) Construction of hypotheses  
 (c) Use of objective measures  
 (d) Subjective analysis  
 (e) Rejection of theories

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only  
 (B) (b), (c), (d) only  
 (C) (c), (d), (e) only  
 (D) (a), (d), (e) only
42. Which of the following operations comes under the pre-active phase of teaching according to Philip. W. Jackson?  
 (A) Diagnosis of the learners  
 (B) Decision about the strategies it  
 (C) Actions and reactions  
 (D) Selecting appropriate testing devices

43. According to classical Indian School of Logic which of the following steps of inference involve application of the universal concomitance to the present case?

- (a) This hill has fire
- (b) Because it has smoke
- (c) Whatever has smoke has fire, e.g., an oven
- (d) This hill has smoke which is invariably associated with fire
- (e) Therefore, the hill has fire

Choose the most appropriate answer from the options given below:

- (A) (c) and (e) only
- (B) (b) and (c) only
- (C) (c) only
- (D) (d) only

44. Arrange the following five elements of 'Pedagogy' given by Herbert

- (a) Generalization
- (b) Association
- (c) Presentation
- (d) Application
- (e) Preparation

Choose the correct answer from the options given below:

- (A) (e), (d), (b), (a), (c)
- (B) (e), (c), (b), (a), (d)
- (C) (c), (e), (b), (d), (a)
- (D) (b), (d), (e), (c), (a)

45. Consider the following email fields in email software:

To: Ravi@gmail.com

Cc: Rajan@gmail.com, Raj@gmail.com

Bcc: Rakesh@gmail.com

Which recipient(s) is/are able to see all the other recipients?

- (A) Rajan, Raj and Rakesh
- (B) Ravi
- (C) Rajan and Raj
- (D) Rakesh

Read the passage and answer below questions:

To end both mass poverty and political uncertainty, the newly liberated nations required economic development. Rapid economic growth was required not only to raise living standards, but also to sustain a spirit of national solidarity. Such was the broadly accepted consensus, which, however, admitted of variations in policies adopted or rejected by post-colonial governments. Where communists were in charge, there was a push to nationalise industries and eliminate private sector production units. In agriculture, family farms were discouraged. Yet even in non-communist countries the state assumed a pre-dominant role in industrial production. Yet agriculture remained in private hands. Some countries left feudal systems of landholding intact; others gave ownership rights to tenants or sharecroppers. There were also variations on the question of international trade and capital

flows. Some countries rigorously protected their own industries from external competition, erecting high tariff barriers. Others adopted a more flexible trade regime, selectively permitting foreign goods and capital into their territory. An important factor in the history of modern Asian nations is that of foreign policy. Countries governed by communist parties were allied with the Soviet Union, while other Asian countries allied with the United States. The latter were attracted by Western financial and technical aid. Yet other countries chose to strike out on a path of non-alignment, choosing not to closely identify with either the Russians or the Americans.

46. The passage attempts to analyse in respect of newly liberated countries

- (A) Their post-colonial politico-economic policies
- (B) The need for protectionism in the global market
- (C) The importance of non-alignment
- (D) The benefits of Western capital

47. In the case of foreign policy, Asian nations were

- (A) Divided
- (B) United
- (C) Neutral
- (D) Unclear

48. The newly liberated nations needed economic development for

- (A) A broad political consensus
- (B) Governmental control
- (C) Rejecting some policies
- (D) National integration

49. The post-colonial governments preferred

- (A) Political uncertainty
- (B) Broad policy consensus
- (C) International trade
- (D) Rigorous external competition

50. In communist regimes, the aims of their core policy were to

- (a) Eliminate the private sector
- (b) Support family farms
- (c) Accept different politico-economic initiatives
- (d) Nationalise the industries

Choose the correct options given below:

- (A) (a) and (b)
- (B) (b) and (c)
- (C) (a) and (d)
- (D) (c) and (a)

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	C	26	C
2	D	27	C
3	A	28	B
4	D	29	D
5	C	30	B
6	C	31	B
7	A	32	A
8	A	33	D
9	B	34	B
10	B	35	A
11	B	36	C
12	B	37	A
13	A	38	A
14	D	39	D
15	D	40	C
16	D	41	A
17	C	42	B
18	C	43	D
19	B	44	B
20	D	45	D
21	C	46	A
22	D	47	A
23	A	48	D
24	B	49	B
25	A	50	C

**14-10-2022 MASC\_FN**

The following table shows the percentage (%) of colleges offering the four IT courses on Python, Java, Multimedia and AI in four Indian States A-D, in a certain year. The table also presents the percentage-wise distribution of the number of colleges in the four states. The total number of colleges in the four states is 4000. Based on the data in the table, answer the questions 1-5.

State-wise Percentage of Colleges offering IT Courses

State	% of Colleges offering				% Distribution of Number of Colleges
	Python	Java	Multimedia	AI	
A	86 %	74 %	59%	56 %	35 %
B	80 %	92 %	82%	84 %	15 %
C	74 %	88 %	84 %	86 %	20 %
D	68 %	64 %	68%	70 %	30 %

- If M and N represent the total number of colleges offering Python and Java, respectively, in all the four states, then  $M - N =$   
 (A) 64  
 (B) 96  
 (C) 48  
 (D) 32
- The total number of colleges offering AI in all the four states is  
 (A) 2784  
 (B) 2816  
 (C) 2864  
 (D) 2952
- Ratio of the number of colleges offering Multimedia in State C to that of State D is  
 (A) 2:3  
 (B) 11:13  
 (C) 14:17  
 (D) 13:16
- The number of colleges offering the Python course is more than 460 in  
 (A) All the four states  
 (B) Only three states  
 (C) Only two states  
 (D) Only one state
- Number of Colleges offering Java in State B is \_\_\_\_\_ % of the number of colleges offering AI in State C.  
 (A) 78.15  
 (B) 80.23  
 (C) 82.25  
 (D) 84.52
- When inference is based not on causation but on uniformity of co-existence, what is it called as per Classical Indian School of Logic?



- (A) Kevalānvayi
- (B) Sāmānyatodrṣṭa
- (C) Purvavat
- (D) Śeṣavat

7. Community Colleges are supposed to offer courses that are a mix of

- (A) Fine Arts and Life Skills
- (B) School and College Education
- (C) Technical and Traditional Skills
- (D) Knowledge, Technical and Soft Skills

8. Find the next term in the series given below.

124, 148, 196, 268, 364, ?

- (A) 484
- (B) 584
- (C) 464
- (D) 268

9. Given below are two statements:

Statement (I): Positivism Says that Sciences need not be free from Speculative and metaphysical approaches.

Statement (II): Positivism is Suitable for natural Sciences

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

10. Given below are two statements:

Statement (I): To address problem of climate change it is essential for the world to have 'Net Zero' carbon emissions by the year 2050.

Statement (II): There is zero carbon emission associated with the production of Gray-hydrogen.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

11. Where is Chanakya said to have composed his Arthashastra?

- (A) Sarnatha
- (B) Takshashila
- (C) Nalanda
- (D) Vikramshila

12. In an examination 42% students failed in Mathematics and 52 % failed in science. If 17% failed in both the subjects, find the Percentage of those Who Passed in both the subjects.

- (A) 23%
- (B) 25%
- (C) 27%
- (D) 30%

13. Pyrolysis helps in addressing the Problem of

- (A) Air Pollution
- (B) Water Pollution
- (C) Municipal Solid Wastes
- (D) Electronic Wastes

14. MIDI is associated with the storage of music files. MIDI is an acronym for \_\_\_\_\_.

- (A) Musical Interactive Digital Interface
- (B) Musical Instructions Device Interpreter
- (C) Mask Iterative Display Instance
- (D) Musical Instrument Digital Interface

15. The acronym 'SANKALP', introduced by the Ministry of Skill Development and Entrepreneurship, stands for:

- (A) Skill Awareness and Knowledge Assessment of Livelihood Promotion
- (B) Skill Addition and Knowledge Assessment of Livelihood Promotion
- (C) Skill Acquisition and Knowledge Awareness of Livelihood Promotion
- (D) Skill Attainment and Knowledge Awareness of Livelihood Promotion

16. Which among the following are the MOOCs, Platforms?

- (a) Google Meet
- (b) Coursera
- (c) Zoom
- (d) Future Learn
- (e) Turnitin

Choose the correct answer from the options given below:

- (A) (a), (d) and (e) only
- (B) (b), (d) and (e) only
- (C) (b) and (d) only
- (D) (c) and (d) only

17. Which of the following are elements of congenial classroom atmosphere?

- (a) Creating a conducive atmosphere
- (b) Engaging in individual efforts
- (c) Supportive team work
- (d) Negotiable movement inside the classroom
- (e) Immersive listening

Choose the correct answer from the options given below:

- (A) (a), (b) and (e) only
- (B) (a), (c) and (e) only
- (C) (b), (c) and (d) only
- (D) (c), (d) and (e) only

18. Match List I with List II:

List I (Types of Learning)	List II (Meaning)
(a) Factual Learning	(I) This Learning is used to organize information in logical structure
(b) Association Learning	(II) This Learning is used to develop personality and think coherently
(c) Conceptual Learning	(III) This Learning is used to organize sequence of activities to achieve a goal
(d) Procedural Learning	(IV) This Learning is used to connect with information more deeply and accurately

Choose the Correct answer from the options given below:

- (A) (a)-(II), (b)-(IV), (c)-(I), (d)-(III)  
 (B) (a)-(II), (b)-(I), (c)-(III), (d)-(IV)  
 (C) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)  
 (D) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)

19. The period of Sendai framework for disaster risk reduction is

- (A) 2015 - 2030  
 (B) 2020 - 2040  
 (C) 2015 - 2025  
 (D) 2020 - 2030

20. One day a man left his home for a morning walk and went 12 km southwards. He then turned right and walked 8 km. Again turned right and walked 12 km, turned left and walked 10 km. How many Kilometers the man has to walk to reach straight to his home?

- (A) 22 km  
 (B) 18 km  
 (C) 20 km  
 (D) 24 km

21. A 729 ml of a mixture contains milk and water in the ratio of 7:2. How much more water is to be added to get a new mixture containing milk and water in the ratio of 7:3?

- (A) 81 ml  
 (B) 90 ml  
 (C) 85 ml  
 (D) 75 ml

22. The major ethical aspects of survey-based research are:

- (a) Protection of Participants from any kind of harm.  
 (b) Publicise the engagement of participants  
 (c) Distinguish between different Strata of People.  
 (d) Not to affect individual Privacy.  
 (e) Use individual Privacy for Private Profit.

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only

- (B) (b), (c) and (d) only
- (C) (a), (c) and (e) only
- (D) (a) and (d) only

23. Which of the following are web search engines?

- (a) DuckDuckGo
- (b) Google
- (c) Yahoo search
- (d) Bing
- (e) Pinterest

Choose the correct answer from the options given below:

- (A) (b), (c) and (d) only
- (B) (a), (b), (c) and (d) only
- (C) (b) and (e) only
- (D) (a), (c), (d) and (e) only

24. Which of the following are advantages of content analysis?

It is a:

- (a) Transparent research method
- (b) Non-reactive method
- (c) Flexible method
- (d) Method that does not need a coding manual
- (e) Method that is free of any kind of framework

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (d) and (e) only

25. The price of a jewel, passing three hands, rises on the whole by 65%. If the first and second sellers earned 20% and 25% profit respectively, find percentage profit earned by the third seller.

- (A) 10%
- (B) 15%
- (C) 16 %
- (D) 12%

26. Given below are two statements:

Statement (I): Most of the time, communication is loaded with power value.

Statement (II): Those who do not have the power of communication always seek to possess it

In light of the above statements, choose the most appropriate answer from the option given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

27. Mohit has sent an email to Bobby, Danny and Ashok as shown below:

From: Mohit@gmail.com To: Bobby@gmail.com Cc: Danny@gmail.com Bcc: Ashok@gmail.com
Subject: Important update
Dear Colleague, Please note that tomorrow's meeting has been cancelled. Regards Mohit

Which of the following statements is Correct?

- (A) Bobby and Danny are aware that Ashok received the email
- (B) Danny is aware that Ashok and Bobby received the email
- (C) Ashok is aware that Bobby and Danny received the email
- (D) All recipients are aware that the others received the email

28. Given below are two statements:

Statement (I): ROM is temporary memory that can be written to or read from and the contents of the memory can be changed

Statement (II): RAM is permanent memory that can only be read from and contents of memory cannot be changed.

In light of the above statements, choose the most appropriate answer from the option given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

29. Which of the following can be categorised as non-verbal communication?

- (a) Pleasant Voice
- (b) Postures
- (c) Gestures
- (d) Facial expressions
- (e) Vociferous greetings

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (e) only
- (C) (c), (d) and (e) only
- (D) (b), (c) and (d) only

30. A source of Communicative inefficiency is

- (A) Desire for Personal gratification
- (B) Implications of familiar relations
- (C) Peer Pressure
- (D) Limited Knowledge

31. Which of the following Developmental areas of individual differences will be effected, if a Child opts for frequent out bursts and throws tantrums?  
 (A) Social  
 (B) Mental  
 (C) Emotional  
 (D) Physical
32. "Considering the Speech given by the School Principal today, I would conclude that he is not a good Public Speaker." Identify the informal fallacy committed in the above argument.  
 (A) Slippery Slope  
 (B) Ad hominem  
 (C) Appeal to force  
 (D) Hasty Generalisation
33. Which of following is true regarding Classical Indian School of Logic?  
 (a) It is deductive  
 (b) It is inductive  
 (c) It is formal  
 (d) It is material  
 (e) It always leads from universal to particular only

Choose the correct answer from the options given below:

- (A) (a), (b), (c) and (d) only  
 (B) (b) and (c) only  
 (C) (a) and (d) only  
 (D) (a), (b), (c), (d) and (e)
34. Virtual ethnography is located in a/an  
 (A) Natural environment  
 (B) Technical environment  
 (C) Political environment  
 (D) Economic environment

35. Match List I with List II:

List I (Statement)	List II (Value)
(a) The number of bits that make up a byte	(I) 5
(b) Base-10 (denary) value of the binary number: 001111	(II) 8
(c) Number of minutes to upload a 75-megabyte file at 2 Megabits per second upload speed	(III) 10
(d) If there are $2^P$ bytes in a Kilobyte then what is the Value of P?	(IV) 15

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)  
 (B) (a)-(II), (b)-(IV), (c)-(I), (d)-(III)  
 (C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)

(D) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)

36. Match List I with List II:

List I (Name of the Subject)	List II (Domain and Subject Matter)
(a) Kāvya	(I) Agriculture, trade, commerce, animal husbandry
(b) Aniviksiki	(II) Etymology
(c) Varta	(III) Logic
(d) Ntrukta	(IV) Imaginative and creative literature

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)  
 (B) (a)-(IV), (b)-(III), (c)-(I), (d)-(II)  
 (C) (a)-(III), (b)-(IV), (c)-(II), (d)-(I)  
 (D) (a)-(II), (b)-(IV), (c)-(I), (d)-(III)

37. Media messages consist of various layers of

- (A) Rationalisation  
 (B) Complex resistance  
 (C) Polymorphic meaning  
 (D) Restrictive rituals

38. Given below are two statements:

Statement (I): Acute exposure to a chemical is a long-term continuous exposure by that chemical  
 Statement (II): Chronic exposure to a chemical is a short-term exposure to that chemical.  
 In light of the above statements, choose the most appropriate answer from the option given below:

- (A) Both Statement (I) and Statement (II) are correct  
 (B) Both Statement (I) and Statement (II) are incorrect  
 (C) Statement (I) is correct but Statement (II) is incorrect  
 (D) Statement (I) is incorrect but Statement (II) is correct

39. The major terms of reference for the National Knowledge Commission were

- (a) Challenge developed countries in Knowledge creation  
 (b) Westernise the Indian educational system  
 (c) Promote creation of Knowledge in science and technology laboratories  
 (d) Promote Knowledge applications in agriculture and industry  
 (e) Build excellence in education system to meet the challenges of the twenty-first century

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only  
 (B) (b), (c) and (d) only  
 (C) (c), (d) and (e) only  
 (D) (a), (b) and (e) only

40. Which of the following is true regarding Inductive argument?

- (A) If all the premises are true, the conclusion must be true.  
 (B) IT claims to support its conclusion only with some degree of probability

- (C) It claims to Support its conclusion conclusively
- (D) Conclusion is completely contained already in the premises

41. Which aspect indicates to be the most relevant in decision making process according to Kohlberg's theory of moral development?

- (A) The age of the Child
- (B) Knowledge of Law
- (C) Influence of friends and Siblings
- (D) How the child arrives at Conclusion

42. Given below are two statements:

Statement (I): Concentration of Volatile Organic Chemicals is generally 100 - 1000 times higher in surface water than underground water.

Statement (II): The most common method of treatment of Volatile Organic Chemicals is to aerate them to atmosphere.

In light of the above statements, choose the most appropriate answer from the option given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

43. Which of the following is outside the Teacher Centric Method?

- (A) Demonstration
- (B) Team teaching
- (C) Inquiry approach
- (D) Lecture method

44. Which of the following statements are logically equivalent?

- (a) No P is S
- (b) Some S are non-P
- (c) Some non-P are not non-S
- (d) Some S are not P

Choose the correct answer from the options given below:

- (A) (b) and (c) only
- (B) (c) and (d) only
- (C) (b), (c) and (d) only
- (D) (a), (b), (c) and (d)

45. One of the aims of qualitative data analysis is to

- (A) Expand the Selected text or material
- (B) Analyse the researcher's credentials
- (C) Describe a phenomenon
- (D) Focus on binary dissection



Read the following passage and answer questions 46 to 50:

Gandhi's speech in Banaras in February 1916 was, at one level, merely a statement of fact namely, that Indian nationalism was an elite phenomenon, a creation of lawyers and doctors and landlords. But, at another level, it was a statement of intent-the first public announcement of the returning expatriate's own desire to make Indian nationalism more properly representative of the Indian people. In the last month of that year, Gandhi was presented with an opportunity to put his precepts into practice. At a meeting held in Lucknow in December 1916, he was approached by a peasant from Champaran in Bihar. The peasant told him about the harsh treatment of peasants by British Indigo planters. Gandhi was to spend most of 1917 in Champaran. He was seeking to obtain for the peasants' security of tenure as well as the freedom to cultivate the crops of their choice. In 1918, Gandhi was involved in two campaigns in his home State of Gujarat. First, he intervened in a labour dispute in Ahmedabad to better the conditions of textile mill workers. Then he joined peasants in Kheda for remission of taxes on peasants following the failure of their harvest. These initiatives marked Gandhi as a nationalist with sympathy for the poor. These were local struggles. During the World War I, the British had instituted press censorship and permitted detention without trial. The Rowlatt committee recommended the continuation of these tough measures. Gandhiji's call for a countrywide campaign brought life to standstill in north and west India

46. Which was the Statement of fact in the Speech of Mahatma Gandhi at Banaras?

- (A) Lawyers, doctors and landlords sided with the British.
- (B) The Indian nationalism was elitist
- (C) Nationalism was of another level in India
- (D) The existing Indian nationalism was highly effective

47. The main intent of the passage is to describe

- (A) The British atrocities in India
- (B) The different facets of Indian national movement
- (C) The various campaigns against the British in India
- (D) The emergence of Gandhiji as a representative national leader

48. Gandhiji's speech expressed the intention of

- (A) Making Indian nationalism more representative
- (B) Announcing the desire of expatriates to become politically active
- (C) Criticising the activities of Indian nationalists
- (D) Launching a new nationalist movement

49. Gandhiji could put his precept into practice during

- (A) The Lucknow meeting
- (B) The talks with landlords
- (C) The Champaran campaign
- (D) The interaction with nationalist leaders

50. Which issue propelled Gandhiji to the national stage for a wider movement?

- (A) Labour dispute of textile mill workers in Ahmedabad
- (B) Agitation peasants in Kheda
- (C) The revolt against British Indigo planters
- (D) The Rowlatt Act

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	A	26	D
2	D	27	A
3	A	28	D
4	A	29	D
5	C	30	D
6	B	31	B
7	D	32	D
8	A	33	A
9	A	34	B
10	A	35	C
11	C	36	B
12	B	37	B
13	D	38	B
14	D	39	C
15	C	40	B
16	A	41	B
17	A	42	A
18	A	43	C
19	C	44	D
20	C	45	C
21	B	46	B
22	D	47	D
23	A	48	A
24	B	49	A
25	B	50	D

**30-09-2022 MGMT\_ FN**

The following table presents the number of employees recruited for five different positions/posts of Administrators, Analysts, Programmers, Testers and Peons (R) in an IT company and those who left (L) the company during the years 2016 — 2021. Based on the data in the table, answer the questions: (Year of foundation of the Company is 2016)

Year-Wise Distribution of Employees

Position → Year ↓	Administrators		Analysts		Programmers		Testers		Peons	
	R	L	R	L	R	L	R	L	R	L
2016	380	-	600	-	440	-	580	-	410	-
2017	140	60	136	60	128	52	100	50	92	48
2018	90	46	120	64	120	60	112	52	76	44
2019	74	44	118	48	104	50	124	48	98	40
2020	80	36	128	50	96	56	136	44	112	60
2021	96	48	144	56	124	72	130	46	100	52

- The percentage increase in the number of employees working in the company in 2021 to that in 2016 was maximum for the position of  
(A) Administrator  
(B) Analyst  
(C) Programmer  
(D) Tester
- The total number of Peons working in the Company at the end of year 2020, is  
(A) 656  
(B) 596  
(C) 544  
(D) 484
- During the period from 2016 to 2021 what is the approximate percentage(%) of the total number of programmers who left the company w.r.t the total number of programmers who joined the Company?  
(A) 19  
(B) 21  
(C) 27  
(D) 29
- The pooled sum of the total number of employees working for all the five positions in the company at the end of the year 2018 is  
(A) 3126  
(B) 2988  
(C) 3028  
(D) 2958
- If M and N represent the number of Analysts and number of Testers recruited in the company during the years 2017 to 2021. Then  $M - N =$   
(A) 64

- (B) 56
- (C) 48
- (D) 44

6. What is the average of first 6 multiples of 11?

- (A) 27.5
- (B) 40.5
- (C) 38.5
- (D) 51.5

7. In the context of vocational education, competency level 8 as per NSQF, is equivalent to:

- (A) Doctorate Degree
- (B) Undergraduate Degree
- (C) Diploma
- (D) Master Degree

8. "When I closed my eyes the cat was sitting on the table when I opened my eyes, I found it sitting on the chair therefore I can conclude that the cat must have moved from the table to the chair while my eyes were closed". According to classical Indian Philosophy which of the following means of knowledge is used in the above argument?

- (A) Pratyaksa (Perception)
- (B) Upamāna (Comparison)
- (C) Anupalabdhi (Non-apprehension)
- (D) Arthāpatti (Postulation)

9. Which of the following statement is converse of the statement — "All academicians are visionaries"?

- (A) Some visionaries are academicians
- (B) Some academicians are visionaries.
- (C) Some academicians are not non-visionaries.
- (D) visionaries are not non-academicians.

10. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): The new system of digital communication has made the emergence of an interactive society possible.

Reasons (R): The new system is based on 'digitised and networked integration of multiple communication modes'.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)
- (C) (A) is correct but (R) is not correct
- (D) (A) is not correct but (R) is correct

11. Given below are two statements:

Statement (I): Communication technology has made revisiting of ideas impossible.

Statement (II): Technology has redefined the elements of time and distance in favour of communication managers.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

12. In intra-personal communication, the medium that carries the messages is

- (A) The personal ego
- (B) The central nervous system
- (C) The physical surrounding
- (D) The symbol system

13. 'No one has ever succeeded to provide conclusive evidence for the claims of astrology. Therefore, we must conclude that astrology is non-sense'. Which fallacy is committed in the above argument?

- (A) Hasty Generalisation
- (B) Appeal to Ignorance
- (C) False cause
- (D) Slippery slope

14. Given below are two statements:

Statement (I): In a breeder reactor the amount of fissile material consumed is more than the amount of fissile material produced.

Statement (II): In India Kalpakkam (Chennai) Nuclear Power Plant is an example of a breeder reactor.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

15. Given below are two statements:

Statement (I): Halocarbons contribute significantly to global warming.

Statement (II): Halocarbons also catalytically destroy stratospheric Ozone.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

16. Exploratory research is primarily intended to

- (A) Gather preliminary information
- (B) Find out the causality of relations
- (C) Know the statistical significance of findings
- (D) Discover the specific contexts of research

17. If the statement 'All children are innocent' is given as true, then which of the following statement can be inferred to be true?
- (A) All those who are innocent are children.
  - (B) Some children are innocent.
  - (C) All those who are non-innocent are adults.
  - (D) Some children are non-innocent.

18. The sequence of stages in experimental research is
- (a) Selection of the setting.
  - (b) Operationalisation of variables.
  - (c) Administration of the experiment.
  - (d) Selection of the experimental design.
  - (e) Analysis and interpretation of results.

Choose the correct answer from the options given below:

- (A) (a), (b), (d), (e), (c)
  - (B) (b), (d), (c), (a), (e)
  - (C) (a), (d), (b), (c), (e)
  - (D) (d), (a), (c), (b), (e)
19. Given below are two statements:
- Statement (I): Artificial Intelligence (AI) learns from changing circumstances, whereas virtual reality is an artificially created environment used to give a feeling of 'being there'.
- Statement (II): QR, a type of more sophisticated barcode which uses a matrix of dark squares on a light background, stands for Quick Reaction.
- In the light of the above statements, choose the most appropriate answer from the options given below:
- (A) Both Statement (I) and Statement (II) are correct
  - (B) Both Statement (I) and Statement (II) are incorrect
  - (C) Statement (I) is correct but Statement (II) is incorrect
  - (D) Statement (I) is incorrect but Statement (II) is correct
20. Which of the following approach does not come under cooperative learning?
- (A) Fishbowl
  - (B) Jigsaw
  - (C) Demonstration
  - (D) Team-pair-solo
21. If the population of a town decreases by 25% and 40% in two successive years, what shall be the decrease in the percentage of population after 2 years?
- (A) 61%
  - (B) 55%
  - (C) 65%
  - (D) 62%

22. Find the missing term in the series given below:
- 8, 10, 7, 12, 5, 16, 3, ?
- (A) 18
  - (B) 20

- (C) 24
- (D) 19

23. What is the full form of 'NROER'?

- (A) National Repository of Online Educational Resources
- (B) National Repository of Open Educational Resources
- (C) National Recruitment of Online Educational Resources
- (D) National Recruitment of Open Educational Resources

24. Which of the following statements are correct?

- (a) IP addresses are used to identify computers on the Internet.
- (b) Internet and WWW are two separate but related terms: Internet is a service on the WWW while WWW is the network infrastructure providing such service.
- (c) Large files such as videos which cannot be sent by e-mail as attachments, can be sent to another computer via FIT.

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (a) and (c) only
- (C) (b) and (c) only
- (D) (a), (b), (c)

25. The focus areas of New Education Policy are:

- (a) Establishment of community colleges
- (b) Setting up of skill missions in rural India
- (c) Institutional re-structuring in the educational sector
- (d) Imparting of holistic education
- (e) Transforming the regulatory system of higher education

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (a), (d), (e) only
- (D) (c), (d), (e) only

26. Which one of the following acronyms matches incorrectly with their full form?

- (A) HTTP - Hyper Text Transfer Protocol
- (B) FTP - File Transfer Protocol
- (C) SMTP - Simple Mail Transfer Protocol
- (D) ISP - Internet Service Protocol

27. A literature review will have to answer the questions of:

- (a) What area should not be investigated?
- (b) What type of research has been done in the area?
- (c) What research methods have been used?
- (d) What area has not been investigated?
- (e) What methods should not have been used in earlier studies?

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only

- (B) (b), (c), (d) only
- (C) (d), (c), (e) only
- (D) (d), (e), (a) only

28. The Likert scale is used to measure a set of

- (A) Values
- (B) Norms
- (C) Attitudes
- (D) Formulae

29. Which of the developments A-E given below have arisen because of the Internet?

- (a) Web logs
- (b) Databases
- (c) Wikis
- (d) DTP
- (e) Social networking sites

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b) and (d) only
- (C) (a), (c) and (e) only
- (D) (c) and (e) only

30. One of the factors that influences our feedback to the communicated message most is

- (A) Location of reception
- (B) Channel of mediation
- (C) Receptor's involvement
- (D) Transmission economy

31. What are the advantages of linear communication?

- (a) It is best suited for persuasion
- (b) It quickens the process of feedback
- (c) It facilitates a two-way exchange of information
- (d) It is extensively used in international propaganda
- (e) It provides demarcated results

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (d) and (e) only

32. Given below are two statements:

Statement (I): Relation of invariable concomitance is the relation between hetu and Sādhya which requires no qualifying term or limitation (upādhi).

e.g., wherever there is smoke there is fire.

Statement (II): Relation of invariable concomitance is the relation between hetu and Pakṣa which requires qualifying term or limitation (upādhi).

e.g., wherever there is fire there is smoke.



In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

33. Who among the following was the first thinker in India to write on Spherical Trigonometry?

- (A) Bhāskarācharya
- (B) Aryabhāṭṭa
- (C) Akshapāda
- (D) Kanada

34. Match List I with List II:

List I (Committee)	List II (Chairman)
(a) Committee on Corporate Participation in Higher Education	(I) Swaminathan
(b) Calcutta University Commission	(II) Michael Sadler
(c) Committee on funding Central Universities	(III) N.R. Narayanamurthy
(d) Committee on Technical Education	(IV) Justice K. Punnayya

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
- (B) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
- (C) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)
- (D) (a)-(I), (b)-(IV), (c)-(III), (d)-(II)

35. Match List I with List II:

List I (Input Method)	List II (Use)
(a) Bar Code Reader	(I) To input text from a printed document
(b) Chip Reader	(II) To input data from a bank cheque
(c) MICR	(III) To input data from a bank card
(d) OCR	(IV) To input data about a product at a POS (Point of Sale)

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(III), (c)-(II), (d)-(IV)
- (B) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)
- (C) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)
- (D) (a)-(IV), (b)-(II), (c)-(III), (d)-(I)

36. Given below are two statements:

Statement (I): Most of the emerging contaminants of water are Endocrine Disrupting Chemicals (EDCs).

Statement (II): Flame retardant additive, found in environment throughout the globe, are considered to be EDCs.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

37. In a mixture of two types of oils A and B, the ratio of A: B is 3 : 2. If the cost of oil A is Rs. 60 per litre and that of oil B is Rs. 120 per litre, then find the cost per litre of the resulting mixture.

- (A) Rs.92
- (B) Rs.90
- (C) Rs.96
- (D) Rs.84

38. In how many years the compound interest on Rs. 10,000 at the rate of 10% will be Rs. 2,100?

- (A) 4 years
- (B) 2.5 years
- (C) 2 years
- (D) 3 years

39. Given below are two statements:

Statement (I): Understanding level of teaching and learning is based on acquisition of factual information, to see relationships, to comprehend, to seek generalization and their application in life.

Statement (II): Reflective level of teaching and learning is based on the development of critical thinking, problem solving skills and creative thinking

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

40. Given below are two statements:

Statement (I): Qualitative research uses a static set of questions.

Statement (II): In quantitative research, questions are standardised.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

41. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Oxygen-demanding wastes are substances that Oxidize in the receiving body of water.

Reason (R): As bacteria decomposes these wastes, they release Oxygen in the water.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)  
 (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)  
 (C) (A) is true but (R) is false  
 (D) (A) is false but (R) is true

42. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): High concentration of Nitric Oxide (NO) in soils makes it inhabitable to plants.

Reason (R): NO combines with soil water and forms nitrous and nitric acid which increases the soil acidity.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)  
 (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)  
 (C) (A) is true but (R) is false  
 (D) (A) is false but (R) is true

43. What are the benefits of asynchronous mode of online learning?

- (a) Self pacing  
 (b) Immediate Feedback  
 (c) Self-engagement  
 (d) Flexibility  
 (e) Presence of Teacher and student at the same time

Choose the most appropriate answer from the options given below:

- (A) (a) and (d) only  
 (B) (b) and (d) only  
 (C) (a), (c) and (d) only  
 (D) (a), (c) and (e) only

44. Which of the following universities in ancient India attained celebrity as the seat of both Brahmanical and Buddhist learning during the time of Siddha Nagarjuna?

- (A) Nalanda  
 (B) Takshashila  
 (C) Dharmaganja  
 (D) Sridhanya Katak

45. Match List I with List II:

List I (Fundamental factors)	List II (Attributes of learning)
(a) Drive	(I) Reward
(b) Cue	(II) Motivation
(c) Response	(III) Stimulus
(d) Reinforcement	(IV) Action

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
 (B) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)  
 (C) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)

(D) (a)-(II), (b)-(III), (c)-(I), (d)-(IV)

Read the passage and answer below questions.

The formation of the Indian state runs in a parallel narrative with the formation of its elite. Indian independence marked the powerful role of the elite in establishing an agenda of modernisation driven by an instrumentalist notion of the state. The elite were constituted in the emerging national space of an independent India as the drivers of social change processes, bringing Indian society into modernisation. The elite not only comprised of political power brokers and private interests, but also of a middle class educated in English and employed in the private, state, and civil society sectors. The emergent professional middle class as a subject of the modern state help considerable power, with its access to primarily English-language education and opportunities for employment in both the private and public sectors. The state on one hand, developed an extended bureaucracy for running the state apparatus and on the other hand, gradually cultivated the market, creating employment opportunities for the middle classes and ensuring the participation of the middle classes in India's mixed economy. The participation of the middle classes in the Indian economy and in the cultivation of its imagination is a salient feature that plays out in the discursive arena. The success of the Indian state in this sense was intrinsically tied to the recrafting of an imagination of an independent India that, on one hand, put forth a narrative of the nation state and on the other hand, mobilised the market as a site for participation.

46. The middle class became powerful in India because of
  - (A) English — language education
  - (B) Modernization of the country
  - (C) Professionalisation of politics
  - (D) Popularity of power brokering
47. The passage describes
  - (A) The emergence of national space
  - (B) The elitist imagination of combining nation state with market
  - (C) The role of bureaucracy in modernising India
  - (D) Social change as a limited process.
48. The elites were expected to
  - (A) Promote private interests
  - (B) Set private agenda
  - (C) Manage the civil society
  - (D) Change the society
49. The state ensured the middle-class participation in
  - (A) National politics
  - (B) Bureaucratisation of power
  - (C) India's mixed economy
  - (D) changing the state apparatus
50. What phenomenon marked the Indian independence?
  - (A) Notion of India
  - (B) Concept of states
  - (C) Role of power elites
  - (D) Parallel narratives of modernisation

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	A	26	D
2	B	27	B
3	D	28	C
4	B	29	C
5	D	30	C
6	C	31	D
7	D	32	C
8	D	33	A
9	A	34	C
10	A	35	C
11	D	36	A
12	B	37	D
13	B	38	C
14	D	39	A
15	A	40	D
16	A	41	C
17	B	42	A
18	C	43	C
19	C	44	D
20	C	45	B
21	B	46	A
22	B	47	B
23	B	48	D
24	B	49	C
25	D	50	C

**01-07-2022 PHY-EDU\_FN**

The following table shows the percentage of students (Boys and Girls) who have successfully completed their respective academic programmes, namely, B.A., B.Sc., B.Com., B.B.A., B.C.A. and B.Tech. in a college. Based on the data in the table, answer the questions 1-5:

Programme-wise Percentage of Successful Students

Programme	Boys	Girls
B.A.	80%	60%
B.Sc.	80%	70%
B.Com.	40%	60%
B.B.A.	90%	60%
B.C.A.	70%	80%
B.Tech.	70%	60%

- If the number of boys and girls successfully completing the B.A. programme are same, then what is the ratio between the number of boys to the number of girls in B.A. programme?  
(A) 4:3  
(B) 5:3  
(C) 4:9  
(D) 3:4
- In B.Com., programme, 44% of the total students passed. If total number of boys in B.Com. is 200, then what is the total number of girls in B.Com.?  
(A) 50  
(B) 52  
(C) 66  
(D) 60
- If the total number of boys and girls in each programme is 150 and 120, respectively, then what is the approximate overall pass percentage of the college?  
(A) 64%  
(B) 69%  
(C) 72%  
(D) 54%
- If the ratio between the number of boys to the number of girls in B.C.A. programme is 4: 1, then what is the ratio between the number of boys who have successfully completed B.C.A. to the number of girls who have successfully completed B.C.A.?  
(A) 9:4  
(B) 9:5  
(C) 6:7  
(D) 7:2
- If the total number of girls in each academic programme is 90, then what is the total number of girls who have successfully completed the academic programmes from the college?  
(A) 321  
(B) 331  
(C) 351

(D) 245

6. In Swayamprabha, Video lectures are provided by  
(A) DTH Channels  
(B) Website [www.swayam.gov.in](http://www.swayam.gov.in)  
(C) Website [www.inflibnet.ac.in](http://www.inflibnet.ac.in)  
(D) Door darshan Channels
7. What are the main qualities for a teacher to provide counselling to his/her student having some mental health issue?  
(a) Credibility and genuineness  
(b) Being Judgemental  
(c) Confidentiality  
(d) Lack of empathy

Choose the most appropriate answer from the options given below:

- (A) (a) and (c) only  
(B) (a) and (d) only  
(C) (b) and (d) only  
(D) (a), (b) and (c) only
8. Which of the following is not a MOOC platform?  
(A) SWAYAM  
(B) EDX  
(C) COURSERA  
(D) ePG Pathshala on Inflibnet portal
9. Which of the following is NOT a trait of a good teacher?  
(A) Full command over the subject  
(B) Treating the intellectual ability of all students identically  
(C) A lot of preparation and thinking in the subject before taking class  
(D) Effective communication and presentation skills
10. Which of the following is the major objective of education?  
(A) Developing economy  
(B) Making students disciplined  
(C) Developing inherent abilities/ powers of students  
(D) Making students followers of teachers
11. When original participants in a longitudinal study drop out midway, it is called  
(A) Experimental distancing  
(B) Respondent deviation  
(C) Mortality  
(D) Sample redundancy

12. Match the List I with List II:

List I (Types of Research)	List II (Research Purpose)
(a) Applied research	(I) Exploration and description of concepts

(b) Basic research	(II) To focus on objective assessment
(c) Quantitative research	(III) Contribution to knowledge
(d) Qualitative research	(IV) To find practical solutions to everyday issues

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(IV), (d)-(III)
- (B) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)
- (C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)
- (D) (a)-(II), (b)-(I), (c)-(III), (d)-(IV)

13. For the selection of samples in research, the snowball sampling method employs

- (A) Field workers
- (B) Opinion leaders
- (C) Surveyors
- (D) Referrals

14. Under the Quality Mandate of UGC, the acronym 'CARE' stands for

- (A) Commission for Academic and Research Ethics
- (B) Centre for Academic Research and Ethics
- (C) Consortium for Academic and Research Ethics
- (D) Computer-Aided Research and Education

15. Given below are two statements:

Statement (I): In the inductive approach, a theory is generated out of research findings.

Statement (II): In the deductive approach, research is done in relation to the hypothesis drawn from the theory in question.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

16. One of the characteristics of oral communication system is that it is

- (A) Mediated
- (B) Point-to-point
- (C) Impersonal
- (D) Noise laden

17. Which of the following elements are needed for the completion of classroom communication?

- (a) Source
- (b) Noise
- (c) Content
- (d) Receiver
- (e) Feed back

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only



- (C) (a), (c), (d) and (e) only  
(D) (b), (c), (d) and (e) only

18. Given below are two statements:

Statement (I): More communication means better communication.

Statement (II): Closely related persons do not have communication needs.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.  
(B) Both Statement (I) and Statement (II) are false.  
(C) Statement (I) is true but Statement (II) is false.  
(D) Statement (I) is false but Statement (II) is true.

19. The sequential order of mass communication elements is

- (a) Source and encoder  
(b) Message  
(c) Medium  
(d) Decoder  
(e) Feed back

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d), (e)  
(B) (a), (d), (c), (b), (e)  
(C) (a), (c), (b), (e), (d)  
(D) (a), (c), (b), (d), (e)

20. Match the List I with List II:

List I (Sign Category)	List II (Example)
(a) Iconic	(I) Language
(b) Indexical	(II) Photographs
(c) Symbolic	(III) Smoke
(d) Profusion of signs	(IV) Letters of alphabets

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)  
(B) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
(C) (a)-(II), (b)-(IV), (c)-(III), (d)-(I)  
(D) (a)-(I), (b)-(II), (c)-(IV), (d)-(III)

21. Find the missing term in the series below:

2, 5, 9, 19, 37, ?, ....

- (A) 74  
(B) 75  
(C) 71  
(D) 72

22. The average of 5 consecutive numbers A, B, C, D and E is 48. What is the product of A and E?

- (A) 2000  
(B) 2300  
(C) 2200

(D) 2100

23. Arrange the following words according to English dictionary arrangement:

- (a) Epitaxy
- (b) Episode
- (c) Epigene
- (d) Epitome
- (e) Epilogue

Choose the correct answer from the options given below:

- (A) (c), (e), (b), (a), (d)
- (B) (c), (e), (a), (b), (d)
- (C) (c), (a), (e), (b), (d)
- (D) (c), (e), (b), (d), (a)

24. A person traverses a certain distance in one hour, 24 minutes by covering two third of the distance at 4 km per hour and the rest at 5 km per hour. Find the distance covered by the person.

- (A) 6 km
- (B) 8 km
- (C) 6.5 km
- (D) 7 km

25. A producer allows a commission of 36% on the retail price of his product and earns a profit of 8.8%. What would be the profit of the producer (in percentage), if the commission is reduced by 24%?

- (A) 49
- (B) 45
- (C) 49.6
- (D) 45.6

26. In classical square of opposition if 'Some S is not P' is given as false then which of the following could be immediately inferred from it?

- (a) 'Some S is P' is true
- (b) 'Some S is P' is undetermined
- (c) 'Some S is P' is false
- (d) 'All S is P' is undetermined
- (e) 'All S is P' is true

Choose the correct answer from the options given below:

- (A) (b), (c), (e) only
- (B) (a), (c), (e) only
- (C) (b), (c), (d) only
- (D) (a), (c), (d) only

27. Fallacy in which a proposition is held to be true just because it has not been proved false, or false just because it has not been proved true is called:

- (A) Fallacy of Composition
- (B) Irrelevant Conclusion
- (C) Argument from Ignorance
- (D) Hasty Generalization

28. Given below are two statements:

Statement (I): The statement – “A person without a purpose is like a car with no engine. And that's a useless piece of machinery” is an example of analogical argument.

Statement (II): The statement – “A person with no purpose is like a car with no engine. And that's a useless piece of machinery” is an example of non-argumentative use of analogy.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

29. Given below are two statements:

Statement (I): Classical Indian Logicians (Naiyāyikas) recommend the use of the negative modal or counter-factual conditional (tarka) to fortify or confirm the major premise.

Statement (II): Naiyāyikas accept tarka as a valid independent source of knowledge

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

30. Any object if thrown upwards starts to come downward after reaching a particular height.

Therefore, there must be some force that must be pulling that object towards the Earth's surface.

This argument is based on which of the following means of knowledge?

- (A) Postulation (Arthāpatti)
- (B) Comparison (Upamāna)
- (C) Verbal Testimony (Śabda)
- (D) Perception (Prātyaksa)

31. With respect to different number system bases, each number in the sequence 10000, 121, 100, 31, 24, P, 20 represents the same decimal number  $x$ . The missing number P in this sequence is:

- (A) 22
- (B) 21
- (C) 23
- (D) 16

32. Given below are two statements:

Statement (I): Most PCs use Dynamic RAMs for CPU Cache.

Statement (II): Static RAM is faster and more expensive than Dynamic RAM.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

33. Which of the following peripheral devices are considered as only input devices?

- (a) Speaker
- (b) Barcode Reader
- (c) MODEM
- (d) Graphic Tablet
- (e) Microphone

Choose the correct answer from the options given below:

- (A) (b), (d) and (e) only
- (B) (b), (c) and (d) only
- (C) (a), (b) and (e) only
- (D) (c), (d) and (e) only

34. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): The Internet of Things (IoT) is a rapidly evolving technology due to its wide range of applications.

Reason (R): IoT is inherently immune to Cyber-attacks.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

35. Consider the following information based on an email software application in which an email attachment is being sent:

From: A	Cc: C, D
To : B	Bcc: E
Subject: CV of Amit	
Message: Please find attached the CV of Amit. with regards	
Attach: Amit CV.docx	

How many people will receive copies of the attachment?

- (A) 2
- (B) 3
- (C) 4
- (D) 5

36. Global warming is attributed to the presence of the following gases in the atmosphere:

- (a) Methane
- (b) Sulphur dioxide
- (c) Surface Ozone
- (d) Nitrogen dioxide

(e) Carbon dioxide

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (e) only
- (B) (a), (c), (e) only
- (C) (a), (c), (d), (e) only
- (D) (a), (b), (d), (e) only

37. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): In vitro testing forms the basis for hazard identification.

Reason (R): In vitro studies are performed within the same biological entities.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

38. Match List I with List II:

List I (Types of Waste)	List II (Examples)
(a) Municipal waste	(I) e-waste
(b) Toxic waste	(II) Straws
(c) Biomedical waste	(III) Demolition waste
(d) Agricultural waste	(IV) Syringes

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(III), (c)-(IV), (d)-(II)
- (B) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)
- (C) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)
- (D) (a)-(IV), (b)-(III), (c)-(I), (d)-(II)

39. Gray Water consists of

- (a) Kitchen waste water
- (b) Waste water containing fecal matter
- (c) Waste water from industrial units
- (d) Bathroom waste water
- (e) Water from agricultural run-off

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (e) only
- (B) (a), (c), (d), (e) only
- (C) (c) and (e) only
- (D) (a) and (d) only

40. Concept behind fuel cell vehicles (FCVs) is

- (A) Using solar energy to run cars
- (B) Using rechargeable batteries to run cars
- (C) Using hydrogen and oxygen to run cars

(D) Using improvised CNG to run cars

41. 'SAMVAY' stands for

- (A) Skill Assessment Matrix for Vocational Advancement of Youth
- (B) Skill Accreditation Matrix for Vocational Assessment of Youth
- (C) Skill Assessment and Monitoring Vocational Advancement of Youth
- (D) Skill Assessment and Monitoring of Vocational Aptitude of Youth

42. Objectives of Value Education are

- (a) Responsible and cooperative citizenship.
- (b) Development of skills and imparting vocational training.
- (c) Developing democratic way of thinking and inculcation of the spirit of National integration.
- (d) Respect for dignity of individual and diversity in society.
- (e) Development of physical, mental, emotional and spiritual aspects

Choose the correct answer from the options given below:

- (A) (a), (b), (d), (e) only
- (B) (a), (c), (d), (e) only
- (C) (b), (c), (d), (e) only
- (D) (d), (e) only

43. According to UGC guidelines (2021) for Multiple Entry and Exit in Academic Programmes offered by higher education institutions, a student seeking admission to 4-years undergraduate degree (Hons/Research) should have academic qualification of level

- (A) 6
- (B) 7
- (C) 4
- (D) 9

44. In which of the following countries, the research and innovation investment as percentage of GDP is the lowest?

- (A) India
- (B) South Korea
- (C) Israel
- (D) USA

45. Which of the following statements is true regarding Dalhousie?

- (a) He supported Thomason's system of vernacular education in North Western province
- (b) He provided the first official support for female education in British India.
- (c) He supported Thomason's plan for technical education in Bengal.
- (d) He reformed the Hindu College and made it the Presidency college of Calcutta

Choose the most appropriate answer from the options given below:

- (A) (a) and (b) only
- (B) (a), (b) and (c) only
- (C) (b), (c) and (d) only
- (D) (a), (b), (c) and (d) only

Read the following passage and answer questions:

The human capacity for abstract theorising soon produces a host of new rules for mastering the environment and regulating social behaviour that go well beyond anything that exists among chimpanzees. In particular, ideas concerning dead ancestors, spirits, Gods and other invisible forces create new rules and powerful incentives for following them. Religious ideas of various sorts enormously increase the scale on which human societies can be organised and constantly generate new forms of social mobilisation. The highly developed suite of emotions related to norm following ensure, however, that no mental model of how the world works is ever regarded as a simple theory that can be discarded when it no longer conforms to observed reality. Even in the domain of modern natural science, where there are clear rules for hypothesis testing, scientists develop emotional attachments to theories and resist empirical evidence indicating that their pet theories are wrong. The tendency to invest mental models and theories with intrinsic worth promotes social stability and allows societies to bulk up enormously in size. But it also means that societies are highly conservative and fiercely resist challenges to their dominant ideas. This is most obvious in the case of religious ideas, but secular rules also tend to be invested with great emotion under the headings of tradition, ritual and custom. The conservatism of societies with regard to rules is then a source of political decay. Rules or institutions created in response to one set of environmental circumstances become dysfunctional under later conditions, but they cannot be changed due to people's heavy emotional investments in them. This means that social change is often not linear- that is, a process of constant small adjustments to shifting conditions - but rather follows a pattern of prolonged stasis followed by catastrophic change. This in turn explains why violence has been so central to the process of political development. As Hobbes points out, the fear of violent death is a very different emotion from the desire for gain or economic motivation. It is extremely difficult to put a price tag on one's own life, or the life of the loved one, which is why fear and insecurity typically motivate people to do things that mere material self-interest does not.

46. According to the above passage, various religious ideas prompt new forms of
- (A) Human environment
  - (B) Social mobilisation
  - (C) Incentives
  - (D) Abstractions
47. Emotional attachments often cloud
- (A) The observed reality
  - (B) The belief in invisible forces
  - (C) The reiteration of social rules
  - (D) The existing simple theory of the world
48. Tendency to invest in mental models with intrinsic worth promotes
- (a) Opposition to social control
  - (b) Social stability
  - (c) Preserving dominant ideas
  - (d) Secularisation of society

Choose the correct option:

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (c) and (d) only
- (D) (a) and (c) only

49. Because of mental investment, political development is invariably associated with  
 (A) Economic motivation  
 (B) Prolonged stasis  
 (C) Conditional adjustments  
 (D) Violence
50. The passage draws our attention to the influence of  
 (A) Empirical evidence in theorisation  
 (B) Secular norms on society  
 (C) Abstract ideation in human mind  
 (D) Shifting social behaviour

**ANSWER KEY**

Q. NO	ANSWERS	Q. NO	ANSWERS
1	D	26	CANCEL
2	A	27	C
3	B	28	D
4	D	29	C
5	C	30	A
6	A	31	A
7	A	32	D
8	D	33	A
9	B	34	C
10	C	35	C
11	C	36	B
12	B	37	C
13	D	38	B
14	C	39	D
15	A	40	C
16	B	41	A
17	C	42	B
18	B	43	CANCEL
19	A	44	A
20	A	45	D
21	B	46	B
22	B	47	A
23	A	48	B
24	A	49	D
25	C	50	C



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Consider the following table which shows the total number of seats in each college in bracket and the number of students admitted to different streams in a particular year. Based on the data in the table answer questions 1- 5:

College Stream	College W (500)	College X (500)	College Y (1000)	College Z (1000)
Science	100	150	350	300
Art	100	100	300	350
Engineering	50	50	150	150
Medical	150	50	50	100

- In which stream the number of admitted students is highest?  
(A) Medical  
(B) Science  
(C) Arts  
(D) Engineering
- What is the percentage of students admitted to Medical stream among the total number of admissions of the college?  
(A) 13  
(B) 15  
(C) 14  
(D) 16
- What is the percentage of vacant seats?  
(A) 17.66  
(B) 15.66  
(C) 14.22  
(D) 16.67
- What is the ratio of students admitted to science stream and engineering stream?  
(A) 9: 4  
(B) 7: 4  
(C) 11: 5  
(D) 9: 5
- What is the average number of Arts students admitted to each college?  
(A) ~ 214  
(B) ~ 212  
(C) ~ 215  
(D) ~ 217
- Which of the following is/are the feature's of Reflective level of teaching?  
(a) Students learn by understanding the facts and information.  
(b) Teaching. is nothing but learning the subject by rote.  
(c) Development of problem-solving ability.

- (d) The student's original thinking and creative abilities.
- (e) The pupils are kept in strict disciplines and cramming is insisted.

Choose the correct answer from the options given below:

- (A) (b) and (c) only
- (B) (d) and (e) only
- (C) (a) and (b) only
- (D) (c) and (d) only

7. Match List I with List II:

List I (Energy Source)	List II (Environmental Impacts)
(a) Wind Energy	(I) Emission of Green House Gases
(b) Thermal Energy	(II) Loss of riparian vegetation
(c) Hydroelectric Energy	(III) Hazardous for birds and bats
(d) Photovoltaic energy	(IV) Production of toxic wastes

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)
- (B) (a)-(IV), (b)-(II), (c)-(I), (d)-(III)
- (C) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)
- (D) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)

8. Which among the following is not related to the ranking of World Universities?

- (A) Times higher ranking
- (B) QS ranking
- (C) Madrid ranking
- (D) Shanghai ranking

9. In terms of communication, most online platforms of teaching and learning are:

- (A) Synchronous
- (B) Asynchronous
- (C) One-to-none
- (D) Tied to specific timeframe

10. The functional components of a digital computer are:

- (a) Input Device
- (b) Printer
- (c) Central Processing Unit
- (d) Memory
- (e) Output Device

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d) only
- (B) (a), (d), (e) only
- (C) (a), (c), (d), (e) only
- (D) (c), (d), (e) only

11. Given below are two statements:

Statement (I): Field notes are important for prompting the ethnographer's memory and form much of the data for subsequent analysis.

Statement (II): Research methods such as qualitative interviewing are flexible, and are less disruptive of the work and personal lives of both researchers and research participants.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

12. What is the full form of the acronym CAD and CAM?

- (A) Control Aided Data and Computer Aided Man
- (B) Computer Aided Design and Computer Aided Manufacturing
- (C) Computer Aided Design and Computer Aided Maintenance
- (D) Computer Aided Design and Computer Aided Man

13. Which among the following are related to the quality of research articles?

- (a) number of research articles
- (b) impact factor
- (c) citation index
- (d) frequency of their publication
- (e) h-index

Choose the correct answer from the options given below:

- (A) (a), (b), (c) Only
- (B) (b), (c), (d), (e) only
- (C) (b), (c), (e) only
- (D) (a), (b), (c), (e) only

14. Match List I with List II:

List I (Values)	List II (Meaning)
(a) Integrity	(I) Having a good attitude
(b) Team work	(II) Dedication and hardwork
(c) Discipline	(III) Do the right thing
(d) Positivity	(IV) Helping and cooperating with each other

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(IV), (c)-(II), (d)-(I)
- (B) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)
- (C) (a)-(IV), (b)-(I), (c)-(III), (d)-(II)
- (D) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)

15. In which of the learner-centered methods students are first presented with challenges?

- (A) Self learning
- (B) Active learning
- (C) Inductive teaching and learning
- (D) Cooperative learning

16. Match List I with List II:

List I	List II
(a) Mind Maps	(I) Allow student to explore the lesson before the teacher describes
(b) Gamifications	(II) Virtual Reality
(c) Flipped Classrooms	(III) Use of self-learning tools
(d) ICT based teaching method	(IV) Learning through using quizzes

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)  
 (B) (a)-(IV), (b)-(I), (c)-(III), (d)-(II)  
 (C) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)  
 (D) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)

17. Given below are two statements:

Statement (I): In present time, researchers prefer to write research papers over writing a monograph.

Statement (II): Monographs and books are not included in the data base of research.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct  
 (B) Both Statement (I) and Statement (II) are incorrect  
 (C) Statement (I) is correct but Statement (II) is incorrect  
 (D) Statement (I) is incorrect but Statement (II) is correct

18. Given below are two statements:

Statement (I): According to Nyāya philosophy an argument does not proceed on the issues that are well established.

Statement (II): According to Nyāya philosophy an argument can proceed only on those issues that are completely and absolutely unknown.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct  
 (B) Both Statement (I) and Statement (II) are incorrect  
 (C) Statement (I) is correct but Statement (II) is incorrect  
 (D) Statement (I) is incorrect but Statement (II) is correct

19. Which one among the following is not a unit of measurement of surface ozone?

- (A) Microgram per meter cube  
 (B) Nanogram per meter cube  
 (C) Dobson unit  
 (D) Parts per million

20. Modern Universities were established in India in 1857 at

- (A) Calcutta, Madras and Hyderabad  
 (B) Calcutta, Madras and Bombay

- (C) Calcutta, Bombay and Hyderabad
- (D) Calcutta, Banaras and Hyderabad

21. What will be the diameter of a circle having area equal to that of a square of side 2.0 m?
- (A) ~1.256 m
  - (B) ~ 2.257 m
  - (C) ~ 0.88 m
  - (D) ~ 2.718 m
22. What is the full form of 'MLA' as a referencing style?
- (A) Machine Language Adaptation
  - (B) Modern Language Association
  - (C) Management Language Authority
  - (D) Mainstream Language Association
23. Which among the following are examples of personal documents, for the purpose of sources of data?
- (a) Diaries
  - (b) Mass media outputs
  - (c) Letters
  - (d) Autobiographies
  - (e) Company documents

Choose the most appropriate answer from the options given below:

- (A) (a), (b), (c) only
- (B) (a), (c), (e) only
- (C) (a), (c), (d) only
- (D) (b), (c), (d) only

24. Which two of the following tasks are carried out by all operating systems?
- (a) Repairing mouse
  - (b) Data logging
  - (c) Managing system resources including memory
  - (d) Transferring data to printer
  - (e) Drawing image

Choose the correct answer from the options given below:

- (A) (a) and (d) only
- (B) (b) and (c) only
- (C) (c) and (d) only
- (D) (c) and (e) only

25. Given below are two statements:

Statement (I): The intensional meaning consists of the qualities or attributes that the term denotes.

Statement (II): The extensional meaning consists of the members of the class that the term denotes.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

26. Given below are two statements:

Statement (I): SWAYAM is Study Web of Active Learning for Young Aspiring Mind.

Statement (II): SWAYAM is Source With Active Young Aspirational Mindfulness.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

27. As per the New London Group, the five modes of communication in sequence are:

- (a) Linguistic
- (b) Visual
- (c) Aural
- (d) Gestural
- (e) Spatial

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d), (e)
- (B) (b), (c), (d), (e), (a)
- (C) (c), (d), (e), (a), (b)
- (D) (d), (e), (a), (b), (c)

28. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Qualitative research is guided by positivistic epistemology

Reason (R): The aim of quantitative research is only to test hypothesis.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)
- (C) (A) is correct but (R) is not correct
- (D) (A) is not correct but (R) is correct

29. Match List I with List II:

List I (Hazardous Waste)	List II (Explanation)
(a) F-list	(I) Hazardous wastes from specific industrial processes
(b) K-list	(II) Discarded chemicals exceeding 25 kilograms per month
(c) P-list	(III) Hazardous wastes from non-specific sources

(d) U-list	(IV) Discarded chemicals exceeding 1 kilogram per month
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Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)
- (B) (a)-(II), (b)-(III), (c)-(I), (d)-(IV)
- (C) (a)-(IV), (b)-(II), (c)-(III), (d)-(I)
- (D) (a)-(I), (b)-(IV), (c)-(II), (d)-(III)

30. Which of the following has the highest value?

- (A)  $15^2$
- (B)  $6^4$
- (C)  $2^7$
- (D)  $3^5$

31. Given below are two statements:

Statement (I): If you know the length of any one side of a right-angled triangle, the area of the triangle can be found.

Statement (II): If you know the length of two sides of a right-angled triangle, the length of the third side can be found.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

32. 'If Sneha tampered with the examination script, then she is guilty of a crime. Sneha did not tamper with the examination script. Therefore, sneha is not guilty of a crime'. Which fallacy is committed in the above argument?

- (A) Fallacy of affirming the antecedent
- (B) Fallacy of composition
- (C) Fallacy of denying the antecedent
- (D) Fallacy of affirming the consequent

33. Which of the following are barriers to acceptance of communicated messages?

- (a) Body language with positive vibes
- (b) Attitude of the listener
- (c) Values of the decoder
- (d) Status clash
- (e) Knowledge stimuli

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (c), (d), (e) only
- (D) (a), (d), (e) only

34. A clock is set right at 5 A.M. The clock loses 16 minutes in 24 hours. What will be the true time when the clock indicates 10 P.M. on 4<sup>th</sup> day?  
 (A) 11 A.M.  
 (B) 11 P.M.  
 (C) 9 P.M.  
 (D) 10 P.M.
35. "The secretaries have asked us to provide lounge areas where they can spend their coffee breaks. This request will have to be refused. If we give them lounge areas, next they will ask for spas and swimming pools. Then it will be yoga centres and fitness gyms. Expenditures for these facilities will drive us into bankruptcy". Which fallacy is committed in the above argument?  
 (A) Strawman  
 (B) Hasty generalization  
 (C) Red herring  
 (D) Slippery slope

36. Match List I with List II:

List I	List II
(a) Formative Evaluation	(I) The purpose is to check the aptitude of a candidate for the course or subject, Entrance exam can be conducted for the same.
(b) Placement Evaluation	(II) It provides the student with feedback regarding his/her success or failure in attaining the instructional objectives.
(c) Summative Evaluation	(III) This evaluation provides an explanation for the possible causes for problems in learning.
(d) Diagnostic Evaluation	(IV) It is a method of judging the worth of a programme at the end of programme activities.

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)  
 (B) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)  
 (C) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)  
 (D) (a)-(IV), (b)-(II), (c)-(I), (d)-(III)
37. Given below are two statements:  
 Statement (I): Piracy refers to attempts to gain information from otherwise undisclosed areas.  
 Statement (II): Hacking refers to the unauthorized duplication of computer software.  
 In the light of the above statements, choose the correct answer from the options given below:
- (A) Both Statement (I) and Statement (II) are true.  
 (B) Both Statement (I) and Statement (II) are false.  
 (C) Statement (I) is true but Statement (II) is false.  
 (D) Statement (I) is false but Statement (II) is true.



38. Match List I with List II:

List I (Elements of Human Communication)	List II (Representational Description)
(a) People	(I) Semanticism
(b) Ideas	(II) Lead to modification of Physical environment
(c) Noise	(III) Information processors
(d) Language	(IV) Expression of creativity

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)  
 (B) (a)-(I), (b)-(II), (c)-(IV), (d)-(III)  
 (C) (a)-(IV), (b)-(I), (c)-(III), (d)-(II)  
 (D) (a)-(III), (b)-(IV), (c)-(II), (d)-(I)

39. Put the following in correct sequence in the light of process of Evaluation systems.

- (a) Development and use of measurement instruments.  
 (b) Interpretation of Data.  
 (c) Setting objectives and criterion.  
 (d) Formulation of judgements and taking of appropriate action.

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d)  
 (B) (b), (c), (a), (d)  
 (C) (c), (a), (b), (d)  
 (D) (a), (c), (b), (d)

40. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): Geothermal fluids are rich in salts and other contaminants such as hydrogen sulphide ( $\text{H}_2\text{S}$ ) and oxides of nitrogen ( $\text{NO}_x$ )

Reasons (R): They are re-injected into ground rather than being dumped to river or ponds.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)  
 (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)  
 (C) (A) is correct but (R) is not correct  
 (D) (A) is not correct but (R) is correct

41. Which of the following were important aspects of Ninth Five Year plans (1997-2002) pertaining to higher education in India.

- (a) Improvement in quality and systemic efficiency  
 (b) Conferring autonomous status by UGC on selected colleges  
 (c) Encouraging research in higher education  
 (d) Vocationalisation of higher education  
 (e) Improvement of quality and relevance of technical education

Choose the most appropriate answer from the options given below:

- (A) (b), (c), (d) and (e) only
- (B) (a), (b), (d) and (e) only
- (C) (a) and (e) only
- (D) (c) and (d) only

42. Which of the following is true regarding Nyāya view of invariable concomitance?
- (a) It is determined by inductive process of reasoning which corresponds to Mill's method of agreement and method of difference.
  - (b) It is based on concomitance of affirmatives that wherever a product exists the material cause thereof exists.
  - (c) It is based on the concomitance of negatives that wherever a material cause does not exist the product thereof does not exist.
  - (d) Nyāya view of inductive process does not correspond to Mill's method of agreement and method of difference.

Choose the correct answer from the options given below:

- (A) (a), (c) and (d) only
- (B) (b), (c) and (d) only
- (C) (b) and (c) only
- (D) (a), (b) and (c) only

43. Match List I with List II:

List I (Water Pollutant Type)	List II (Example)
(a) Toxic Pollutant	(I) Chlorine
(b) Nontoxic Pollutant	(II) Protozoa
(c) Macroscopic Pollutant	(III) Benzene
(d) Pathogenic Pollutant	(IV) Food cans

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)
- (B) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)
- (C) (a)-(II), (b)-(I), (c)-(IV), (d)-(III)
- (D) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)

44. Given below are two statements:

Statement (I): Western concepts focus on wholeness and unity of communication.

Statement (II): Non-Western communication concepts have the strong central idea of individualism.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

45. If 7461 is coded as 135, then what will be the code for 6893?

- (A) 151
- (B) 161
- (C) 179

(D) 152

Read the passage and answer questions from 46 to 50.

Reflected evaluation demands reasoning regarding relative importance, not just counting. This is an exercise in which we are constantly engaged. To that general understanding has to be added the possible importance of public reasoning as a way of extending the reach and reliability of valuations and making them more robust. The necessity of scrutiny and critical assessment is not just a demand for self-centred evaluation by secluded individuals, but a pointer to the fruitfulness of public discussion and of interactive public reasoning: social evaluations may be starved of useful information and good arguments if they are entirely based on separated and sequestered cogitation. Public discussion and deliberation can lead to a better understanding of the role, reach and significance of particular functionings and their combinations. To illustrate, public discussion of gender-based inequalities in India has helped to bring out, in recent years, the importance of certain freedoms that did not receive adequate acknowledgement earlier. Examples include the freedom to depart from fixed and time-honoured family roles that limit the social and economic opportunities of women, and also from a social value system that is more geared to recognising men's deprivation than women's. These traditional antecedents of gender inequality in well-established, male-dominated societies demand not only individual concern but also informative public discussion and often enough, agitation. The connection between public reasoning and the choice and weighting of capabilities in social assessment is important to emphasize. It also points to the absurdity of the argument that is sometimes presented, which claims that the capability approach would be usable and operational, only if it comes with a set of given weights on the distinct functionings in some fixed list of relevant capabilities.

46. Gender inequality in traditional societies demands:

- (a) Individual discourses only
- (b) Public discussions
- (c) Limitation on opportunities
- (d) Agitation based on public reasoning

Choose the correct option:

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (b) and (d) only
- (D) (c) and (d) only

47. Reflective evaluation takes into account:

- (A) Subjective perception of public issues
- (B) Mere counting of societal developments
- (C) General understanding and public reasoning
- (D) Extensive arguments on inequalities

48. The major take-away from the passage is:

- (A) Promotion of a capability system
- (B) Separate social assessment of men and women
- (C) Recognition of the traditional value system
- (D) Absurdity of a capability approach with a fixed list of weights

49. The public discussion on gender inequalities makes us support:

- (A) Time honoured family roles

- (B) Restrictive social roles
- (C) Deprivation of men in society
- (D) Reforms in the present social value system

50. A robust and critical evaluation will result in:

- (A) Interactive public discussions
- (B) Self-centered assessment
- (C) Availability of useful information
- (D) Sequestered cognition

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	B	26	C
2	C	27	CANCEL
3	D	28	D
4	A	29	A
5	B	30	B
6	D	31	D
7	D	32	C
8	C	33	B
9	B	34	B
10	C	35	D
11	A	36	C
12	B	37	B
13	C	38	D
14	A	39	C
15	C	40	A
16	C	41	B
17	A	42	D
18	C	43	B
19	C	44	B
20	B	45	B
21	B	46	C
22	B	47	C
23	C	48	D
24	C	49	D
25	D	50	A

**11-10-2022 POLI-SC \_ AN**

The following table shows the number of students admitted (A) and left (L) from the five different colleges (P-T) during the years 2016- 2021. Year of foundation of all the five colleges is 2016.

Based on the data in the table, answer the questions 1-5:

Year-wise Distribution of Students

College	P		Q		R		S		T	
Year	A	L	A	L	A	L	A	L	A	L
2016	2250	-	2100	-	2400	-	3200	-	3100	-
2017	660	440	900	500	840	460	880	500	700	450
2018	580	420	650	430	800	500	800	520	760	460
2019	690	400	570	420	720	450	790	440	820	440
2020	760	500	600	380	680	480	840	450	880	420
2021	700	460	680	440	820	560	920	480	850	430

- The percentage increase in the number of students studying in 2021 to that in 2016 is maximum for the college  
(A) S  
(B) P  
(C) T  
(D) R
- If M and N represent the number of the students admitted in college S and Q from 2017 to 2021 respectively, then  $M-N =$   
(A) 830  
(B) 790  
(C) 870  
(D) 770
- The number of students studying in College Q till 2020 is  
(A) 3110  
(B) 2890  
(C) 3090  
(D) 3290
- The average number of students studying in all the five colleges (P-T) in the year 2018 is  
(A) 3168  
(B) 3188  
(C) 3148  
(D) 3388
- The number of students leaving is approximately \_\_\_\_\_ % of the number of students taking admission in College Q from the year 2016 to 2021.  
(A) 37  
(B) 43  
(C) 39  
(D) 41

## 6. Match List I with List II:

List I (Input Device)	List II (Use)
(a) Graphics Tablet	(I) To input data at an information kiosk
(b) Touch Screen	(II) To input data from a product in a supermarket (at a POS)
(c) Bar Code Reader	(III) To input a PIN
(d) Numeric Keypad	(IV) To input freehand drawing

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(II), (c)-(I), (d)-(III)  
 (B) (a)-(III), (b)-(II), (c)-(I), (d)-(IV)  
 (C) (a)-(I), (b)-(IV), (c)-(III), (d)-(II)  
 (D) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)

## 7. Match List I with List II:

List I (Organizations)	List II (Domains)
(a) NITTTR	(I) Out of School Children Educational Programmes
(b) CEC	(II) Engineering UG and PG Degree Programmes
(c) NPTEL	(III) Non-Technological Undergraduate Degree Programmes
(d) NIOS	(IV) Teacher Training Programmes

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)  
 (B) (a)-(III), (b)-(II), (c)-(I), (d)-(IV)  
 (C) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)  
 (D) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)

8. In Microsoft Office Powerpoint, 'SmartArt' provides predefined sets of diagrams for users to use. Which of the following are types of diagrams provided by the Microsoft Powerpoint SmartArt feature?

- (a) Layer  
 (b) Process  
 (c) Hierarchy  
 (d) Cycle  
 (e) Relationship

Choose the correct answer from the options given below:

- (A) (a), (b), (c) and (d) only  
 (B) (b), (c), (d) and (e) only  
 (C) (c) and (d) only  
 (D) (a), (b) and (d) only

9. What is the correct order of Risk assessment due to exposure of some chemicals to the humans

- (a) Dose Response Assessment  
 (b) Exposure Assessment  
 (c) Risk Characterization

(d) Hazard Identification

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (c)
- (B) (d), (b), (c), (a)
- (C) (c), (d), (a), (b)
- (D) (d), (a), (b), (c)

10. Which of the following storage media from the list (a)-(e) given below are optical storage media only?

- (a) DVD RAM
- (b) Pen drive
- (c) Magnetic tape
- (d) SSD
- (e) Blue-ray disc

Choose the correct answer from the options given below:

- (A) (b), (c) and (d) only
- (B) (a) and (b) only
- (C) (d) and (e) only
- (D) (a) and (e) only

11. According to UGC, which of the following are objectives of community colleges?

- (a) To provide skill-based education to the students of higher education.
- (b) To make higher education relevant to the learner and communities.
- (c) To provide vertical mobility for pursuers of higher education.
- (d) To open vistas of employment.
- (e) To train youngsters in traditional skill sectors.

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (c), (d), (e) only
- (D) (a), (d), (e) only

12. Given below are two statements:

Statement (I): Research questions are used more in studies that do not focus on the statistical significance of results.

Statement (II): Research questions normally dominate the exploratory studies.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

13. National Disaster Management Authority (NDMA) works under the aegis of

- (A) Ministry of Earth Science (MoES)
- (B) Ministry of Home Affairs (MHA)

- (C) Ministry of Environmental Forest and Climatic Change (MoEFCC)
- (D) Department of Space- Indian Space Research Organisation (ISRO)

14. Consider the numbers a, b, c and d with values 54, 71, 75 and 99, respectively. Find a number which may be subtracted from each of them such that  $\frac{aa}{bb} = \frac{cc}{dd}$
- (A) 5
  - (B) 2
  - (C) 3
  - (D) 4
15. If A's income is 40% less than B's income, then how much percent is B's income more than A's income?
- (A) 65.66
  - (B) 64.66
  - (C) 66.66
  - (D) 55.66
16. Identify the formal fallacy committed in the following argument:  
 "All communists are revolutionists. All anarchists are revolutionists. Therefore, all anarchists are revolutionists."
- (A) the fallacy of the undistributed middle
  - (B) The existentialist fallacy
  - (C) Illicit major
  - (D) Illicit minor
17. Find the next term in the series given below –  
 6, 13, 27, 55, 111, ?
- (A) 333
  - (B) 166
  - (C) 223
  - (D) 222
18. Which of the following statements are logically equivalent?
- (a) No S is P
  - (b) No P is S
  - (c) All S are non-P
  - (d) All non-P are non-S
  - (e) No S is non-P
- Choose the correct answer from the options given below:
- (A) (a), (c) and (d) only
  - (B) (a), (b) and (c) only
  - (C) (b), (c) and (d) only
  - (D) (a), (b), (c) and (d) only
19. Aeration process is efficiently used to remove
- (A) Persistent Organic Pollutants
  - (B) Volatile Organic Compounds
  - (C) Metals
  - (D) Inorganic ions



20. The National Knowledge Commission recommended the establishment of
- (A) 50 National Universities
  - (B) 50 technological universities
  - (C) 50 universities of science education
  - (D) 50 universities of yoga and naturopathy
21. Which of the following statements are correct in this context of energy crops?
- (a) They are fast growing plants
  - (b) They require specific season to grow
  - (c) They necessarily require fertile land to grow
  - (d) They can be converted into gaseous and liquid fuel
  - (e) They generally have high calorific value

Choose the correct answer from the options given below:

- (A) (a), (d) and (e) only
- (B) (a), (b), (c) and (d) only
- (C) (b), (c), (d) and (e) only
- (D) (c), (d) and (e) only

22. Which of the following ancient universities developed connection with the viharas?
- (a) Nalanda
  - (b) Valabhi
  - (c) Takshashila
  - (d) Navadeep
  - (e) Odantapuri

Choose the correct answer from the options given below:

- (A) (a) and (c) only
- (B) (a), (c) and (d) only
- (C) (a), (b), (c) and (e) only
- (D) (a), (b) and (c) only

23. Which of the ancient places of higher learning developed in connection with temples and became centres of community life in the places where they were situated?
- (a) Benaras
  - (b) Navadeep
  - (c) Odantapuri
  - (d) Kanchi
  - (e) Jagaddala

Choose the correct answer from the options given below:

- (A) (c) and (d) only
- (B) (a), (b) and (d) only
- (C) (a) and (d) only
- (D) (a), (b), (c) and (e) only

24. If a teacher needs to prepare a small animated video related to his/her topic of teaching which softwares will be appropriate?
- (a) Mind Mapping tools

- (b) Animaker
- (c) Google Document
- (d) Pawtoon
- (e) Polleverywhere

Choose the correct answer from the options given below:

- (A) (a) and (d) only
- (B) (a), (c) and (d) only
- (C) (b), (d) and (e) only
- (D) (b) and (d) only

25. Given below are two statements:

Statement (I): Skill based education is focused on the idea that it may be learned better if it is practised in real life.

Statement (II): Non- conventional higher education is totally based on the teaching-learning activities that are offered on campus with fixed - time classes.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

26. The average weight of 15 men is decreased by 2 kg when one of them whose weight is 70 kg is replaced by a new man. What is the weight of the new man?

- (A) 35
- (B) 45
- (C) 38
- (D) 40

27. Which of the following steps of inference state(s) the reason for the establishment of the proposition according to the Classical Indian School of Logic?

- (a) The hill has fire.
- (b) Because it has smoke.
- (c) Whatever has smoke has fire e.g., oven.
- (d) This hill has smoke which is invariably associated with fire.
- (e) Therefore, this hill has fire.

Choose the correct answer from the options given below:

- (A) (c) only
- (B) (d) and (e) only
- (C) (b) only
- (D) (c) and (d) only

28. The sequence of common elements in the field of experience as related to communication and identified by Wilbur Schramm is:

- (a) Values
- (b) Language
- (c) Attitudes
- (d) Beliefs

(e) Culture

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d), (e)
- (B) (b), (e), (c), (d), (a)
- (C) (b), (a), (d), (e), (c)
- (D) (c), (d), (e), (a), (b)

29. A child has learnt many things in his or her way with younger sibling by using physical intimidation. If he/she uses the same tactics on peer, this indicates
- (A) Social learning
  - (B) Assimilation
  - (C) Equilibrium
  - (D) Accommodation
30. Communicative power is meaningful only in the network of
- (A) Social relations
  - (B) Ethical resistance
  - (C) Restrictive freedom
  - (D) Political oneupmanship
31. Over the past 100 years, the estimated rise of global sea level is by 10 - 25 cm or more. Which one of the following has maximum contribution in it?
- (A) Thermal expansion of ocean waters
  - (B) Glacier and ice- cap melting
  - (C) Greenland ice sheet thinning
  - (D) Terrestrial water storage changes due to human activities
32. Given below are two statements:  
Statement (I): Indian Logic makes a distinction between deduction and induction.  
Statement (II): Indian Logic studies thought as such and not the forms of thought alone.  
In light of the above statements, choose the correct answer from the options given below:
- (A) Both Statement (I) and Statement (II) are true.
  - (B) Both Statement (I) and Statement (II) are false.
  - (C) Statement (I) is true but Statement (II) is false.
  - (D) Statement (I) is false but Statement (II) is true.
33. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).  
Assertion (A): The effects of history in a social research study can be fatal.  
Reason (R): Various events that occur during a study may not affect the opinions and attitudes of respondents.  
In light of the above statements, choose the most appropriate answer from the options given below:
- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
  - (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
  - (C) (A) is correct but (R) is not correct.
  - (D) (A) is not correct but (R) is correct.

34. Which of the following are examples of fraudulent use of the Internet?

- (a) Blogging
- (b) Booking a cinema ticket
- (c) Pharming
- (d) Phishing

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (c) and (d) only
- (C) (b) and (c) only
- (D) (a) and (d) only

35. Simple interest on a certain sum of money at the rate of 5% per annum for 4 years is Rs. 800.

What will be the compound interest on the same sum for the same period and at the same rate of interest?

- (A) 850
- (B) 840
- (C) 855
- (D) 862

36. A teacher has created a spreadsheet of test marks of five students. She has written a formula =HLOOKUP (B4, \$D\$1: \$K\$2, 2) in cell C4 and copies this formula from cell c4 to the range C5:C8. What values will be returned by the formulae in the range C4:C8?

	A	B	C	D	E	F	G	H	I	J	K
1				0	9	14	19	27	33	40	47
2				U	G	F	E	D	C	B	A
3	Name	Marks									
4	Anil	43	=HLOOKUP(B4,\$D\$1:\$K\$2,2)								
5	Amit	85									
6	Varun	35									
7	Anita	20									
8	Harish	10									

- (A) A, C, E, G and F, respectively
- (B) B, C, E, G and U, respectively
- (C) A, C, E, F and U, respectively
- (D) B, A, C, E and G, respectively

37. In which mode of learning, learners participate in active discussion and get immediate feedback from the teachers?

- (A) Synchronous mode of learning
- (B) Asynchronous mode of learning
- (C) Spatial mode of learning
- (D) Relativist mode of learning

38. Given below are two statements:

Statement (I): Drupal is a paid software that enables users to upload content to server.

Statement (II): Joomla is a free and open-source content management system.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

39. Which of the following statements are sub-contraries?

- (a) All nurses are caring human beings.
- (b) No nurses are caring human beings.
- (c) Some nurses are caring human beings.
- (d) Some nurses are not caring human beings.

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (a) and (d) only
- (C) (b) and (c) only
- (D) (c) and (d) only

40. An empirical counterpart of a concept is called

- (A) Construct
- (B) Definition
- (C) Hypothesis
- (D) Variable

41. Which of the following are the means of control in experimental research?

- (a) Controlling Physical Settings
- (b) Choice of participants
- (c) Statistical analysis
- (d) Focussing on Short-term effects
- (e) Sidetracking the causal factors

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (d) and (e) only

42. Referential framing connects communication media with

- (A) Fantasy world
- (B) Reality
- (C) Self-regulation
- (D) Morality disruptions

43. Given below are two statements:

Statement (I): In communication, codes have never been neutral in their reception.

Statement (II): Codes always represent meanings, reflecting partiality.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

44. The notion of categorical imperatives is a
- (A) Fragmented norm
  - (B) Social distinction
  - (C) Moral law
  - (D) Situational ethic

45. The key features of the interaction model of communication are:
- (a) It is a two-way process.
  - (b) The physical context of communication is unimportant.
  - (c) The psychological context of communication is always taken into account.
  - (d) Feedback is not a response to the message received.
  - (e) It is less message-focussed.

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (a), (c) and (e) only
- (D) (c), (d) and (e) only

Read the passage and answer the given question from 46 to 50.

The war on poverty earlier was intertwined with the population problem. Statements and positions regarding population began to proliferate. In many instances, a crude form of empiricism was followed. It made Malthusian views and prescriptions inevitable. This is despite the experts making serious attempts to conceptualise the effect of demographic factors on development models and theories were formulated seeking to relate various variables and to provide a basis for policy and programme formulation. As the experience of the West suggested, it was hoped that population growth rates would begin to fall as the countries developed. But as many warned, countries could not wait for this process to occur. They should speed up the reduction of population growth by more direct means. To be sure, this preoccupation with population had existed for several decades, especially in relation to Asia. it was a central topic in discussion on race and racism. But the scale and form that the discussion took were new. The discussions held in academic circle or in the ambit of the nascent international organisations also had a new tone. They focussed on topics such as relationship between economic growth and population control. They also discussed topics such as demographic experience of rich countries and its possible impact on poor nations. Now the need is a new view of population, with new scientific and technological instruments to manage it.

46. Models relating to different variables of demography formed the basis of
- (A) Population distribution
  - (B) Attempts to create new population concepts.
  - (C) Effects on poverty elimination.
  - (D) Development policy formulation.
47. The western experience was that development would bring in

- (A) Racial equality
- (B) Decrease in population
- (C) The end of discussions on racism.
- (D) International focus on Asia.

48. The passage, in the final analysis, suggests
- (A) A new scientific management of population control.
  - (B) The study of demographic dividends in the west.
  - (C) The rejection of all previous studies on population control.
  - (D) The linkage of racism, poverty and population with academic solutions.
49. The new tone of academic discussion was related to
- (a) Economic growth and population control
  - (b) Resource mobilisation and output
  - (c) Racial factors and demography.
  - (d) The pre-occupation of the west with population control.

Choose the correct answer from the options given below:

- (A) (a) and (b)
- (B) (b) and (c)
- (C) (c) and (d)
- (D) (a) and (c)

50. What made the Malthusian views on population look inevitable?
- (A) War on poverty
  - (B) Proliferation of statements on population
  - (C) unrefined empiricism
  - (D) Justification on unrelated grounds

### ANSWER KEY

Q. NO.	ANSWERS	Q. NO.	ANSWERS
1	D	26	D
2	A	27	C
3	C	28	B
4	B	29	B
5	C	30	A
6	D	31	A
7	C	32	D
8	B	33	C
9	D	34	B
10	D	35	D
11	A	36	D
12	A	37	A
13	B	38	D
14	D	39	D
15	C	40	D
16	CANCEL	41	A
17	C	42	B
18	B	43	A
19	B	44	C
20	A	45	C
21	A	46	D
22	C	47	B
23	B	48	A
24	D	49	D
25	C	50	C



**12-07-2022 PSY \_AN**

Based on the data in the table, answer the five questions that follow

The following table presents the percentage (%) distribution of candidates who were enrolled for Ph.D. entrance exam and the candidates who passed the exam from seven different Institutes A-G. Total number of candidates enrolled were 17100 and candidates who passed the exam were 11400.

**Institute-wise Percentage (%) Distribution of Candidates**

Candidates→ Institute ↓	Enrolled (%) (out of 17100)	Passed (%) (out of 11400)
A	16%	12%
B	22%	18%
C	15%	17%
D	10%	13%
E	17%	16%
F	8%	9%
G	12%	15%

- What percentage of candidates passed the exam from Institute F, out of the total number of candidates enrolled in F?  
(A) 50%  
(B) 62.5%  
(C) 75%  
(D) 80%
- Which Institute has the highest percentage of candidates who passed the exam in comparison to the candidates enrolled?  
(A) C  
(B) D  
(C) G  
(D) F
- The number of candidates who passed the exam from E and B together exceeds the number of candidates enrolled from F and D together by:  
(A) 456  
(B) 558  
(C) 798  
(D) 814
- What is the percentage of candidates who have passed the exam from C and D together in comparison to the total number of candidates enrolled in the same two Institutes?  
(A) 68%  
(B) 80%  
(C) 74%  
(D) 65%
- What is the ratio of candidates who passed from Institute B to the candidates enrolled in the same Institute?  
(A) 9:11

- (B) 14:17
- (C) 6:11
- (D) 9:17

6. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): The purpose of 21<sup>st</sup> century Higher Education is to promote critical and creative thinking abilities among students.

Reason (R): Critical and creative thinking help students in placements.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

7. Learning Management Systems (LMS) is a software application used for

- (A) Marketing of offline courses
- (B) Admission of students
- (C) Creating institutional websites
- (D) Creating virtual student-teacher groups

8. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): The higher the Intelligence Quotient, the higher is the Emotional Quotient.

Reason (R): Intelligence Quotient indicates the rate of mental growth of a child.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

9. Which of the following is an offline method of teaching?

- (A) SWAYAM
- (B) MOOCS
- (C) Reflective
- (D) SWAYAMPRAKASH

10. Which of the following methods of teaching-learning is 'Teacher Centric'?

- (A) Chalk and Talk
- (B) Case-studies discussion
- (C) Activity based
- (D) Field work

11. Subliminal priming as a research concept was first used in the discipline of

- (A) Sociology
- (B) Political Science
- (C) Economics
- (D) Social Psychology

12. Retrospective studies are related to

- (A) Social issues
- (B) Language development
- (C) Political events
- (D) Biographical research

13. Which of the following statements are true?

- (a) An ideal sample is always possible
- (b) Time and budget constraints do not hinder the selection of an ideal sample
- (c) Sampling inadequacies can be managed
- (d) A large sample can meet the inadequacies
- (e) A representative sample is beneficial

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (d) and (e) only

14. Given below are two statements:

Statement (I): The research questions should be linked to each other.

Statement (II): The research questions should be either broad or narrow.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

15. Match List I with List II:

List I (Type of analysis)	List II (Description)
(a) Path analysis	(I) Looks at argumentation systematically
(b) Content analysis	(II) Simultaneous analysis of two sets of variables
(c) Canonical correlational analysis	(III) Represented by structured linear regression equations
(d) Discourse analysis	(IV) Uses the method of unitisation

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)
- (B) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)
- (C) (a)-(III), (b)-(IV), (c)-(II), (d)-(I)
- (D) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)

16. In any modern society, communication has

- (A) Power value
- (B) Transient value

- (C) Uncommon value
- (D) Non-critical value

17. A personal dimension of communication is

- (A) Source of noise
- (B) Field of experience
- (C) Institutional Affiliation
- (D) Location of reception

18. Human communication involves the skills of

- (a) Not being visible
- (b) Self-presentation
- (c) Group interaction
- (d) Forging relations
- (e) Using high brow language

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (a), (c) and (e) only
- (C) (b), (c) and (d) only
- (D) (c), (d) and (e) only

19. Given below are two statements:

Statement (I): Communication can facilitate truth.

Statement (II): Communication can also be used to obscure truth.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

20. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R)

Assertion (A): The sign systems of communication have fixed rules and production procedures.

Reason (R): The sign systems are invented for cross-cultural communication.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

21. Find the missing number in the below given sequence.

4, 9, 20, 43, 90, ?

- (A) 180
- (B) 185
- (C) 133
- (D) 190

22. A person is given 10 rupees for shooting at a target and if he misses, then he has to give 10 rupees. If he gets 300 rupees for 100 chances, then how many chances did he miss?  
(A) 35  
(B) 45  
(C) 55  
(D) 25
23. There are a total of 15 tricycles and bicycles to be manufactured. If the total number of wheels available is 40, how many tricycles and bicycles can be manufactured, respectively?  
(A) 5,10  
(B) 8,7  
(C) 7,8  
(D) 10,5
24. In a certain coding language, 'GIVE' is written as 'VIEG' and 'OVER' is written as 'EVRO'. How will 'DISK' be written in the same code?  
(A) SIDK  
(B) KDSI  
(C) SIKD  
(D) KISD
25. A group of 3 inter-related numbers as (6, 10, 16) is given. By tracing the relationship among the numbers in this group, choose another group with similar relationship, from the given alternatives.  
(A) (9, 13,18)  
(B) (6, 11, 15)  
(C) (5, 10, 18)  
(D) (7, 11,17)
26. If the statement, 'Some animals are not ferocious' is given as true, then which of the following could be immediately inferred from it:  
(a) 'All animals are ferocious' is undetermined  
(b) 'Some animals are ferocious' is false  
(d) 'No animals are ferocious' is undetermined  
(e) 'All animals are ferocious' is false
- Choose the correct answer from the options given below:  
(A) (c) and (d) only  
(B) (b) and (d) only  
(C) (b), (c) and (d) only  
(D) (a), (b) and (c) only
27. "Miss World says that the socially correct thing for a vegetarian guest to do at a dinner party is to look perfectly happy eating salads. Therefore, to act likewise is the socially correct thing to do". Which fallacy is committed in the above argument?  
(A) Red Herring  
(B) Ad Populem  
(C) Appeal to Inappropriate Authority  
(D) Ad Hominem

28. Given below are two statements:

Statement (I): 'Some S is P' is contrary to 'No S is P'.

Statement (II): 'Some S is P' is subcontrary to 'Some S is not P'.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

29. Given below are two statements:

Statement (I): According to Classical Indian Logicians, all fallacies are material fallacies.

Statement (II): According to Classical Indian Logicians, fallacies could be purely formal as well as purely informal.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

30. Which of the following statements are true regarding Nyāya view of Inference as a valid source of knowledge?

- (a) It is a cognition which presupposes some other cognition
- (b) It is mediate or indirect
- (c) It arises through a mark (linga or hetu)
- (d) That mark is invariably connected with the object of inference (sādhya)

Choose the correct answer from the options given below:

- (A) (c) and (d) only
- (B) (a), (b), (c) and (d)
- (C) (a), (b) and (d) only
- (D) (b), (c) and (d) only

31. Bing is a web search engine owned and operated by \_\_\_\_\_.

- (A) Microsoft
- (B) Yahoo
- (C) Alphabet Incorporation
- (D) Amazon

32. Students in a class in New Delhi have been communicating with a class in Chandigarh by videoconference. The two classes find that the images they receive from each other occasionally freeze for upto 30 seconds before the video continues. This type of problem can most often be solved by \_\_\_\_\_.

- (A) increasing bandwidth
- (B) upgrading cameras
- (C) increasing video resolution
- (D) upgrading monitors

33. Consider the following incomplete sentences:

Infrastructure aspects provided by the Government of India under National e-Governance Plan are:

(I) for storage of data and hosting applications, it is \_\_\_\_\_.

(II) for network connectivity, it is \_\_\_\_\_ and

(III) for capacity building, it is \_\_\_\_\_.

Identify the correct order of words (A - C) from the following to complete the sentences.

(a) SWAN

(b) SDC

(c) NISG

Choose the correct answer from the options given below:

(A) (b), (a), (c)

(B) (a), (b), (c)

(C) (b), (c), (a)

(D) (a), (c), (b)

34. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R)

Assertion (A): HTTP is an application-layer network protocol for transmitting hypermedia documents.

Reason (R): HTTP was designed for communication between web browsers and web servers.

In light of the above statements, choose the correct answer from the options given below:

(A) Both (A) and (R) are true and (R) is the correct explanation of (A)

(B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)

(C) (A) is true but (R) is false

(D) (A) is false but (R) is true

35. Match List I with List II:

List I (Information Technology)	List II (Definition)
(a) GPS	(I) A wireless technology standard for exchanging data over short distances.
(b) Intranet	(II) A protocol used to send and receive web pages.
(c) Bluetooth	(III) A radio navigation system that allows users to determine their exact location.
(d) HTTP	(IV) A private network or website available only to members of an organisation.

Choose the correct answer from the options given below:

(A) (a)-(III), (b)-(IV), (c)-(I), (d)-(II)

(B) (a)-(II), (b)-(IV), (c)-(I), (d)-(III)

(C) (a)-(III), (b)-(I), (c)-(IV), (d)-(II)

(D) (a)-(I), (b)-(IV), (c)-(III), (d)-(II)

36. Given below are two statements:

Statement (I): Prolonged (chronic) exposure to high noise levels (90-110 dB) causes only a temporary shift in the hearing threshold of an exposed person.

Statement (II): Noise may adversely impact the psychological as well as physiological well-being of the exposed person.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

37. Given below are two statements:

Statement (I): Millennium Development Goals were envisaged to reduce extreme poverty by 2020.

Statement (II): There were eight Millennium Development Goals.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

38. Identify the hazards that occur only due to natural reasons.

- (a) Forest fires
- (b) Volcanoes
- (c) Cyclones
- (d) Floods

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (c) and (d) only
- (D) (a) and (d) only

39. Arrange the following gases in an increasing order of their contribution towards global warming.

- (a) Methane
- (b) Chlorofluorocarbons
- (c) Nitrous oxide
- (d) Carbondioxide

Choose the correct answer from the options given below:

- (A) (a), (b), (c), (d)
- (B) (c), (b), (a), (d)
- (C) (c), (a), (b), (d)
- (D) (a), (c), (b), (d)

40. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): All the member countries of the International Solar Alliance are located between the Tropics of Cancer and Capricorn.



Reason (R): Intensity of solar radiation in the tropical region is high as compared to temperate and polar regions.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

41. Given below are two statements:

Statement (I): 'E-Vidhyapeeth' is a learning Management System and an e-learning infrastructure product.

Statement (II): An HTML editor is a software application for creating web pages.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

42. Match List I with List II:

List I (Core Universal Values)	List II (Area Related to Human Personality)
(a) Truth	(I) Emotional
(b) Righteous Conduct	(II) Spiritual
(c) Peace	(III) Physical
(d) Non-violence	(IV) Intellectual

Choose the correct answer from the options given below:

- (A) (a)-(IV), (b)-(III), (c)-(I), (d)-(II)
- (B) (a)-(III), (b)-(I), (c)-(II), (d)-(IV)
- (C) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)
- (D) (a)-(IV), (b)-(I), (c)-(III), (d)-(II)

43. Given below are two statements:

Statement (I): The National Assessment and Accreditation Council (NAAC) is a constituent unit of UGC.

Statement (II): National Board of Accreditation (NBA) was established by UGC with the purpose of evaluating technical programs.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

44. Who was the Chairman of Kothari Commission?

- (A) Dr. D. S. Kothari
- (B) Dr. D. P. Kothari

- (C) Dr. S. P. Kothari
- (D) Dr. T. H. Kothari

45. Given below are two statements:

Statement (I): In ancient India, indigenous education was imparted at home, in temples and gurukuls.

Statement (II): In ancient India, students went to viharas for higher knowledge.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

Read the given passage and answer the five questions that follow

Stereotypes as a form of ordering the mass of complex data that we receive from the world are of only a particular form. These are representation and categorization of persons in a society. These also make sense of that society through generalities, patterning and typifications. Unless one believes that there is some definitively true order in the world which is transparently revealed to human beings and unproblematically expressed in their culture, this activity of ordering, including the use of stereotypes, becomes a necessity. It is indeed inescapable.

This is a part of the way societies make sense of themselves, and hence actually make and reproduce themselves. All such orderings are partial and limited, but do not mean untrue. Partial knowledge is not false knowledge. It is simply not absolute knowledge. However, there are two problems about stereotypes within this perspective. First is the buzzing confusion of reality. This is accompanied by a belief in the absoluteness of a particular order. It is a refusal to recognize its limitations and partiality, its relativity and changeability. Secondly, it is not only a product of history, but also reflected in the power relations within that society. Stereotypes are imposed by the stronger on society and the order is grounded in social power. The western notion of stereotypes is often considered as a short cut, points to the manner in which stereotypes are a very simple, striking, easily grasped form of representation. Nonetheless, such a notion is less capable of condensing a great deal of complex information and connections. Often, the observed simplicity of stereotypes is deceptive.

46. Stereotypes are described as \_\_\_\_\_ of people.

- (A) Positive images
- (B) True images
- (C) Typified images
- (D) Glorified images

47. Stereotypes are products of

- (A) Absolute knowledge
- (B) Partial knowledge
- (C) False knowledge
- (D) Real knowledge

48. Those who produce stereotypes

- (A) Do not see their own limitations
- (B) Have strong social reasons
- (C) Do not believe in such dispositions

(D) View the world positively

49. Stereotypes originate from

- (A) Social reality
- (B) Ideal social order
- (C) Objective social assessment
- (D) Social power relations

50. The passage attempts to describe

- (A) The simplicity of stereotypes
- (B) The social need for stereotypes
- (C) The importance of absolute knowledge
- (D) The complex nature of stereotypes

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	C	26	A
2	B	27	C
3	C	28	D
4	B	29	C
5	C	30	B
6	B	31	A
7	D	32	A
8	D	33	A
9	C	34	A
10	A	35	A
11	D	36	D
12	D	37	D
13	C	38	B
14	C	39	B
15	C	40	D
16	A	41	A
17	B	42	A
18	C	43	C
19	A	44	A
20	D	45	A
21	B	46	C
22	B	47	B
23	D	48	A
24	C	49	D
25	D	50	D

**09-07-2022 SAN\_ AN**

Consider the following table that embodies details about the percentage distribution of population of five states A-E on the basis of poverty line and gender. In accordance with the data in the table, answer the questions 1-5:

State-wise Distribution of Population

State	Percentage (%) of Population Below Poverty Line	Proportion of Males (M) and Females (F)	
		Below Poverty Line	Above Poverty Line
		M: F	M: F
A	35	5:6	6:7
B	25	3:5	4:5
C	24	1:2	2:3
D	19	3:2	5:3
E	15	5:3	3:2

- What will be the number of females above poverty line in the state 'D', if it is known that the population of the state 'D' is 8 million?  
(A) 3 million  
(B) 2.83 million  
(C) 2.63 million  
(D) 2.43 million
- If the male population above poverty line for state 'C' is 1.9 million, then what is the total population of state 'C'?  
(A) 6.25 million  
(B) 5.35 million  
(C) 4.85 million  
(D) 4.5 million
- What will be the male population above poverty line for state 'A' if the female population below poverty line for state 'A' is 2.1 million?  
(A) 2.3 million  
(B) 3.3 million  
(C) 4.4 million  
(D) 6.6 million
- If the population of males below poverty line for state 'B' is 2.4 million and that for state 'E' is 6 million, the total population of states 'B' and 'E' is in the ratio of \_\_\_\_\_.  
(A) 2:5  
(B) 2:7  
(C) 3:7  
(D) 4:9
- If the total population of state 'C' and state 'D' is 5 million and 7 million, respectively, then what is the difference in the population below poverty line in these two states?  
(A) 0.30 million  
(B) 0.23 million  
(C) 0.13 million  
(D) 0.11 million

6. Which of the following are correct regarding the process of learning?
- (a) Remembering the information and reproducing it in examination.
  - (b) Synthesis and organisation of the old and new experiences resulting in a novel pattern
  - (c) Carrying out activities which leave permanent effect on the learner.
  - (d) Learning means acquisition, retention and modification of experience.
  - (e) Preparing only for scoring good marks.

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
  - (B) (b), (c) and (d) only
  - (C) (c), (d) and (e) only
  - (D) (b), (c), (d) and (e) only
7. What is the full form of MOODLE, an open-source Learning Management System (LMS)?
- (A) Modular Object Oriented Dynamic Learning Environment
  - (B) Modular Object Oriented Digital Learning Environment
  - (C) MOOCs Oriented Digital Learning Environment
  - (D) Multiple Object Oriented Dynamic Learning Environment
8. Given below are two statements:  
Statement (I): Assessment drives learning.  
Statement (II): No feedback is required to be given in formative assessments.  
In the light of the above statements, choose the most appropriate answer from the options given below:
- (A) Both Statement (I) and Statement (II) are correct
  - (B) Both Statement (I) and Statement (II) are incorrect
  - (C) Statement (I) is correct but Statement (II) is incorrect
  - (D) Statement (I) is incorrect but Statement (II) is correct
9. According to Dewry, education is a
- (A) Social need
  - (B) Personal need
  - (C) Status need
  - (D) Financial need
10. Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching has various components. Which of the following is not a component under this scheme?
- (A) Inter University Centres of UGC
  - (B) Faculty Development Centres (FDCs)
  - (C) Teaching Learning Centres (TLCs)
  - (D) School Of Education (SOE)
11. Which of the following are the features of case study method?
- (a) It is appreciative
  - (b) It is particularistic
  - (c) It is descriptive
  - (d) It is inductive

(e) It is mechanical

Choose the most appropriate answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (c), (d), (e) only
- (D) (a), (d), (e) only

12. Which of the following are remote data collection procedures?

- (a) Third party interview
- (b) Pop-ups
- (c) Data base e-mail
- (d) Instant messaging
- (e) Panel discussions

Choose the correct answer from the options given below:

- (A) (a), (b), (c) only
- (B) (b), (c), (d) only
- (C) (c), (d), (e) only
- (D) (a), (b), (e) only

13. To perform t-test which of the following software's can be utilized?

- (a) MS Excel
- (b) Unix
- (c) SPSS
- (d) MS Equations

Choose the most appropriate answer from the options given below:

- (A) (a) and (b) only
- (B) (b), (c) and (d) only
- (C) (a) and (c) only
- (D) (a), (c) and (d) only

14. Match List I with List II:

List I (Types of Research)	List II (Research Characteristic)
(a) Cohort analysis	(I) Study of a specific population as it undergoes change over time.
(b) Cultivation analysis	(II) Simultaneous analysis of two or more data tables.
(c) Factor analysis	(III) Analysis of perceptions of social world.
(d) Canonical analysis	(IV) A multivariate statistical test used for data reduction.

Choose the correct answer from the options given below:

- (A) (a)-(I), (b)-(II), (c)-(III), (d)-(IV)
- (B) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)
- (C) (a)-(IV), (b)-(I), (c)-(II), (d)-(III)
- (D) (a)-(I), (b)-(III), (c)-(IV), (d)-(II)

15. The measures of inter-coder reliability are employed in research related to
- (A) Discourse analysis
  - (B) Narrative analysis
  - (C) Path analysis
  - (D) Content analysis
16. Transforming ideas, thoughts and messages into verbal and non-verbal signs and symbols is known as
- (A) Channelisation
  - (B) Controlled communication
  - (C) Encoding
  - (D) Decoding
17. Which of the following are the effects of oral communication?
- (a) Fragmented information
  - (b) Personal connect
  - (c) Feed back
  - (d) Objectivity
  - (e) Absence of interpretation

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (a), (b) and (c) only
- (C) (b) and (c) only
- (D) (c), (d) and (e) only

18. Given below are two statements:

Statement (I): The psychological obstacle in communication can be seen when the receiver fails to refer language to reality and experience.

Statement (II): The stereotypes held by one also contribute to the failure of language to reflect social reality.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

19. Identify the correct sequence of the elements of communication set by Aristotle:

- (a) Speech
- (b) Speaker
- (c) Audience
- (d) Occasion
- (e) Effect

Choose the correct answer from the options given below:

- (A) (a), (d), (b), (c), (e)
- (B) (d), (b), (a), (e), (c)

- (C) (c), (d), (a), (e), (b)  
(D) (b), (a), (d), (c), (e)

20. Match List I with List II:

List I (Types of Communication Effects)	List II (Source of Service)
(a) Instrumental	(I) Author's observation
(b) Prestige	(II) A range of special requests
(c) Reinforcement	(III) Sentimental fiction
(d) Aesthetic	(IV) Factual reports

Choose the correct answer from the options given below:

- (A) (a)-(II), (b)-(III), (c)-(IV), (d)-(I)  
(B) (a)-(III), (b)-(IV), (c)-(II), (d)-(I)  
(C) (a)-(IV), (b)-(III), (c)-(II), (d)-(I)  
(D) (a)-(I), (b)-(IV), (c)-(II), (d)-(III)

21. Find the wrong term in the series given below:

- 16, 22, 30, 45, 52, 66, .....
- (A) 22  
(B) 30  
(C) 66  
(D) 45

22. If the word EARTH be written as QPMZS in coded form, how can the word HEART be written in the same code?

- (A) SPMZQ  
(B) SQMPZ  
(C) SPMQZ  
(D) SQPMZ

23. Compute the value of  $\frac{(0.35^2) - (0.03^2)}{0.19}$  up to 3 decimal places:

- (A) 0.064  
(B) 0.64  
(C) 0.006  
(D) 0.694

24. 10 chairs and 5 tables were purchased for Rs. 17,500. If the average cost of a chair is Rs.1000, what is the average cost of a table?

- (A) Rs. 1,400  
(B) Rs. 1,200  
(C) Rs. 1,100  
(D) Rs. 1,500

25. An Aeroplane started 30 minutes later than the scheduled time from a place 1500 km away from its destination. To reach the destination at the scheduled time the pilot needed to increase the speed by 250 km/hr. What was the speed of the Aeroplane during journey? (in km/hr).

- (A) 750  
(B) 1000



- (C) 800
- (D) 900

26. In classical square of opposition if 'No S is P' is given as false then which of the following could be immediately inferred from it?
- (a) 'Some S is not P' is true
  - (b) 'All S is P' is undetermined
  - (c) 'Some S is not P' is undetermined
  - (d) 'Some S is P' is true
  - (e) 'Some S is not P' is false

Choose the correct answer from the options given below:

- (A) (b), (d) and (e) only
  - (B) (a), (b) and (d) only
  - (C) (a), (d) and (e) only
  - (D) (b), (c) and (d) only
27. Which Fallacy is committed in the following argument?
- "Smooth Sailing is all that's there to LIFE with ABC Insurance Policy."
- (A) The Appeal to Emotion
  - (B) The Appeal to Pity
  - (C) The Appeal to Force
  - (D) Irrelevant Conclusion

28. Given below are two statements:

Statement (I): To draw an analogy between two or more entities is to indicate one or more respects in which they are similar.

Statement (II): Every analogical inference proceeds from the similarity of two or more things in one or more respects to the similarity of those things in some further respect.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

29. Given below are two statements:

Statement (I): For the Classical Indian thinkers, inference (anumāna) means only syllogistic inference.

Statement (II): Unlike Aristotelian Syllogism, anumāna involves four steps instead of three.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true.
- (B) Both Statement (I) and Statement (II) are false.
- (C) Statement (I) is true but Statement (II) is false.
- (D) Statement (I) is false but Statement (II) is true.

30. Which of the following means of knowledge involves positing of something for making any unit of cognition self-complete?

- (A) Comparison (Upamāna)
- (B) Postulation (Arthāpatti)
- (C) Non-Cognition (Anupalabdhi)
- (D) Verbal Testimony (Śabda)

31. With respect to data communication, which of the following statements is true about fibre optic cable?
- (A) Fibre optic cable carries data in pulses of light and is prone to interference.
  - (B) Fibre optic cable carries data as electronic signals and is not prone to interference.
  - (C) Fibre optic cable carries data as electronic signals and is prone to interference.
  - (D) Fibre optic cable carries data in pulses of light and is not prone to interference.
32. Arrange the following computer memory type from fastest to slowest speed:
- (a) Hard Disk
  - (b) Main Memory (RAM)
  - (c) CD-ROM
  - (d) CPU Registers
  - (e) Cache Memory

Choose the correct answer from the options given below:

- (A) (d), (e), (a), (b), (c)
- (B) (a), (c), (b), (d), (e)
- (C) (e), (d), (b), (a), (c)
- (D) (d), (e), (b), (a), (c)

33. Which of the following statements about malware are true?
- (a) A Trojan Horse is malware disguised as legitimate software.
  - (b) A Virus inserts itself into another program. It runs and spreads itself when the program is opened.
  - (c) A worm is similar to a virus except that it does not need a program in order to run. It spreads by itself.

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (a) and (c) only
- (C) (b) and (c) only
- (D) (a), (b) and (c)

34. Match List I with List II:

List I (File)	List II (File Format)
(a) Video	(I) .xlsx
(b) Podcast	(II) .jpg
(c) Photograph	(III) .mp4
(d) Spreadsheet	(IV) .mp3

Choose the correct answer from the options given below:

- (A) (a)-(III), (b)-(II), (c)-(IV), (d)-(I)
- (B) (a)-(II), (b)-(IV), (c)-(III), (d)-(I)
- (C) (a)-(III), (b)-(IV), (c)-(II), (d)-(I)

(D) (a)-(I), (b)-(IV), (c)-(II), (d)-(III)

35. In the following spreadsheet, which of the formulae below would be best for cell C2? Note that the formula must be able to be copied down from C2 to both C3 and C4.

	A	B	C
1	Lunch Cost (Rs.)	Dinner Cost (Rs.)	Total Cost (Rs.)
2	15	27	42
3	23	35	58
4	10	35	45

- (A) = A\$2 + \$B2  
 (B) = \$A\$2 + B2  
 (C) = \$A\$2 + \$B\$2  
 (D) = \$A2 + \$B2

36. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): Soil Pollution due to detergents affects the root growth of the plants and depresses the growth of soil micro-organisms.

Reason (R): Presence of detergents in soil makes the soil more acidic.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).  
 (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).  
 (C) (A) is correct but (R) is not correct.  
 (D) (A) is not correct but (R) is correct.

37. Examples of Persistent Organic Pollutants (POPs) are:

- (a) Dioxins  
 (b) PAN  
 (c) VOC  
 (d) FURANS  
 (e) PCB

Choose the correct answer from the options given below:

- (A) (a), (d), (e) only  
 (B) (a), (b), (d) only  
 (C) (b), (c), (e) only  
 (D) (c), (d), (e) only

38. In the first commitment period of Kyoto Protocol, how many greenhouse gases were covered for reducing their emissions?

- (A) 4  
 (B) 5  
 (C) 6  
 (D) 7

39. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):  
Assertion (A): Green hydrogen production will be critical for world community to achieve carbon neutrality by the year 2050.  
Reason (R): The energy content of hydrogen gas is much higher than that of coal.  
In the light of the above statements, choose the correct answer from the options given below:
- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).  
(B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).  
(C) (A) is true but (R) is not false.  
(D) (A) is false but (R) is true.
40. Since the start of industrial revolution, the acidity of ocean's surface water has  
(A) increased by ~10%  
(B) remained constant  
(C) decreased by ~25%  
(D) increased by ~30%
41. A Government University with Institute of Eminence status can have foreign faculty up to a maximum of  
(A) 20% of total faculty strength  
(B) 25% of total faculty strength  
(C) 30% of total faculty strength  
(D) 35% of total faculty strength
42. Credits earned by a student and stored in Academic Bank of Credit, after the date of earning such credits, will have validity up to a maximum of  
(A) 7 years  
(B) 10 years  
(C) 12 years  
(D) 15 years
43. Identify the statutory bodies of a university:  
(a) Board of studies  
(b) Academic Council  
(c) Executive Council  
(d) Finance Committee  
(e) University Court
- Choose the correct answer from the options given below:  
(A) (a), (b), (c), (d) only  
(B) (a), (c) only  
(C) (a), (c), (e) only  
(D) (b), (c), (d), (e) only
44. Environmental education must be integral to all academic programmes as students need to be mainly sensitized about  
(A) its interdisciplinary and multidisciplinary nature  
(B) its emergence as a specialized field  
(C) relationship between culture and environment

(D) environmental degradation and its consequences for life on earth

45. 'How could a lamp, which does not keep on burning, light another lamp?' This statement is from the book titled 'Siksha (learning)'. Who among the following is the author of this book?
- (A) Rabindranath Tagore
  - (B) Sarvapalli Radhakrishnan
  - (C) Jyoti Phule
  - (D) Savitribai Phule

Read the following passage and answer the questions:

An essential function of hegemony involves convincing people to support the existence of a social system that does not support them in return. Marginalised groups do not often protest or revolt against ideologies that overwhelmingly support privileged groups because, on some level, they consent to being dominated. This statement prompts an immediate question: Why would anyone consent to such an arrangement? While dominant ideologies may reflect the desires and interests of socially powerful groups, for these ideologies to remain dormant or hegemonic, they must also feature an additional promise. It is in the best interest of the marginalized groups to accept these beliefs as well. Put another way, members of socially powerful groups act to have their world view accepted as the universal way of thinking, and members outside these groups come to accept some of these ideologies because they appear beneficial in some way. This is referred to as a process of spontaneous consent because it is typically informal or unnoticed. The best way to understand the spontaneous consent of hegemony is through an example. A number of ideological components within a nation's higher education system may not be in the best interests of students. One dominant belief suggests that college students should pay for their own education. Despite being affected by the belief, they accept it, and the ideology survives. When such consent fails, however, the concept of hegemony also explains how dominant ideologies evolve to contain this failure through a process of flexible appropriation. In such a situation, it is likely that dominant cultural institutions will absorb any challenging beliefs, integrate them into the hegemonic matrix, and re-establish the previous norm. As a result, hegemonic systems never go away. They simply change form through a process of constant give and take between social group. Hegemonic ideological structures maintain control in part through the never-ending process of integration and appropriation of marginalised ideologies.

46. Despite hegemony, why marginalised people do not protest?
- (A) Because they are too weak.
  - (B) They are not bothered being dominated.
  - (C) Privileged groups forcefully suppress them.
  - (D) Because of the promise that the dominant ideology is in their best interest.
47. What is the acceptance of domination called?
- (A) Hegemony
  - (B) Marginalisation
  - (C) Spontaneous consent
  - (D) Reflective desire
48. The dominant ideology survives because of its
- (A) Social Power
  - (B) Flexible appropriation
  - (C) Beneficial features
  - (D) Ideological components

49. The dominant cultural institutions have the power to

- (a) Absorb challenges
- (b) Maintain relations with social groups
- (c) Destroy opposition
- (d) Re-establish the previous norms

Choose the most appropriate answer from the options given below:

- (A) (a) and (b) only
- (B) (b) and (c) only
- (C) (c) and (d) only
- (D) (a) and (d) only

50. The passage explains

- (A) The forced absorption of the marginalized into the mainstream
- (B) The establishment of the ideology of the marginalised
- (C) The defects of spontaneous consent
- (D) The survival of dominant ideology against the challenges

### ANSWER KEY

Q. NO	ANSWERS	Q. NO	ANSWERS
1	D	26	D
2	A	27	A
3	B	28	A
4	A	29	C
5	C	30	B
6	B	31	D
7	B	32	D
8	C	33	D
9	A	34	C
10	A	35	D
11	B	36	C
12	B	37	A
13	C	38	C
14	D	39	B
15	D	40	D
16	C	41	B
17	C	42	A
18	A	43	CANCEL
19	D	44	D
20	C	45	A
21	D	46	D
22	D	47	C
23	B	48	B
24	D	49	D
25	B	50	D

**01-10-2022 SOCIO\_FN**

The following table shows the percentage (%) distribution of students studying in six classes A-F of a school and shows the ratio of boys to girls among them. Number of students studying in all six classes together is 600.

Class-wise distribution of students

Class	% Students	Ratio Boys: Girls
A	20%	3:2
B	12%	3:1
C	16%	5:3
D	15%	8:7
E	21%	4:3
F	16%	1:1

- The average of the number of girls studying in all six classes, A - F, is  
(A) 41  
(B) 42  
(C) 43  
(D) 44
- The difference between the number of boys and the number of girls in all the six classes A-F together, is  
(A) 102  
(B) 114  
(C) 106  
(D) 108
- Number of boys in class B is \_\_\_\_% more than the number of girls in class F.  
(A) 8.5%  
(B) 12.5%  
(C) 15%  
(D) 17.5%
- In the given pair of classes, which two classes have an equal number of boys in them?  
(A) A and C  
(B) C and F  
(C) D and F  
(D) E and F
- If P and Q are the differences between the number of boys and girls in class A and class C, respectively, then the percentage of P with reference to Q is  
(A) 80%  
(B) 120%  
(C) 100%  
(D) 90%

6. The snowball sampling method can be employed in  
(A) Historical research  
(B) Ethnographic research  
(C) Content analysis  
(D) Narrative analysis
7. The development of MOOCS for undergraduate disciplines has been given to which of the following National Coordinators?  
(A) IIM Bangalore  
(B) All India Council of Technical Education (AICTE)  
(C) Consortium of Educational Communication (CEC)  
(D) Indira Gandhi National Open University (IGNOU)
8. Meaning of transmitted message in communication is a  
(A) Sender activity  
(B) Receiver activity  
(C) Channel activity  
(D) Collaborative activity
9. Which informal logical fallacy is committed in the following statement?  
'If you give him an inch, he will take a mile'.  
(A) Slippery slope  
(B) Appeal to force  
(C) Appeal to authority  
(D) Hasty generalization
10. "Education is the manifestation of perfection already in man" was stated by:  
(A) Rabindranath Tagore  
(B) Swami Vivekanand  
(C) M. K. Gandhi  
(D) Sri Aurobindo
11. If the statement, 'Some officers are not honest' is given as false, then which of the following statements can be inferred to be true?  
(a) All honest beings are officers  
(b) Some officers are honest  
(c) No officers are honest  
(d) All officers are honest
- Choose the correct answer from the options given below:  
(A) (b) only  
(B) (d) only  
(C) (a) and (c) only  
(D) (b) and (d) only
12. While designing assessments, teacher must focus on which of the following as per Outcome Based Education (OBE)?  
(A) Activities  
(B) Reading material  
(C) Pre-requisites



(D) Learning outcomes

13. Which of the following tools can be used for traditional offline teaching?

- (A) Projector
- (B) Powerpoint
- (C) Physical models
- (D) LMS

14. Which of the following are Green House Gases?

- (a) Carbon dioxide
- (b) Nitrogen dioxide
- (c) Methane
- (d) Chlorofluorocarbons
- (e) Benzene

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (a), (b), (c) and (d) only
- (C) (a), (c) and (d) only
- (D) (c), (d) and (e) only

15. Solar ponds

- (a) produce potable water
- (b) are thermal energy collectors
- (c) use salt gradient to inhibit heat loss
- (d) are used for swimming in cold regions
- (e) produce heated water

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (e) only
- (C) (a), (b), (c) and (d) only
- (D) (b), (c), (d) and (e) only

16. Which of the following are of practical significance in research?

- (a) Social pressure
- (b) Research topic
- (c) Research design
- (d) Research method
- (e) Comparison fellow researchers

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (a), (d) and (e) only
- (C) (c), (d) and (e) only
- (D) (b), (c) and (d) only

17. Given below are two statements:

Statement (I): According to NEP-2020, all funding agencies of Research in the country will merge into a single entity - National Research Foundation (NRF).

Statement (II): The main objective of NRF is to catalyze quality research in our country.  
In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

18. Which of the following is the correct full form of NIDI?

- (A) National Institute of Distance Instruction
- (B) National Intellectual Data Initiative
- (C) National Inter Development Institute
- (D) National Initiative for Design Innovation

19. Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): As regards communication, a major function is to build, manipulate and use symbols.

Reason (R): One of the functions of communication is to entertain the receivers.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

20. The average weight of 25 students of section A of a class is 60 kg, whereas the average weight of 35 students of section B of the same class is 62.5 kg. Find out the average weight of all the 60 students of the class.

- (A) 60.5
- (B) 62.2
- (C) 61.2
- (D) 61.46

21. Simple interest accrued on a certain sum is  $\frac{16}{25}$  of the principal sum. If the numerical value of the rate of annual interest (%) and time (years) are equal, what is annual rate of interest?

- (A) 10 %
- (B) 7 %
- (C) 6 %
- (D) 8 %

22. World Wide Web (WWW) was invented by whom?

- (A) Alan Turing
- (B) Steve Jobs
- (C) Bill Gates
- (D) Tim Berners-Lee

23. Which of the following are the products of grounded theory?

- (a) Experimental framework

- (b) Concepts
- (c) Hypotheses
- (d) Attributes of a category
- (e) Theoretical dilution

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (b) and (e) only

24. Dissolved Oxygen (DO) is important for

- (A) Drinking water
- (B) Rain water
- (C) Underground water
- (D) River water

25. For which of the following forms of categorical propositions contraposition is valid?

- (a) Some S is P
- (b) Some S is not P
- (c) No S is P
- (d) All S is P

Choose the correct answer from the options given below:

- (A) (a), (c) and (d) only
- (B) (a), (b), (c) and (d)
- (C) (a), (b) and (c) only
- (D) (b), (c) and (d) only

26. Given below are two statements:

Statement (I): In the Aristotelian syllogism, the major term and the minor term stand apart in the premises though they are connected by the middle term with each other.

Statement (II): In Nyāya syllogism, all the three terms stand synthesised in Upanaya.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

27. Given below are two statements:

Statement (I): One of the critical elements in the conceptual definition of communication is the level of observation.

Statement (II): We should not forget the factor of intentionality of communication to understand it.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false

- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

28. Given below are two statements:

Statement (I): A research design is blueprint that guides the use of a research method and analysis of data.

Statement (II): A research design is in no way connected with the expression of causal relations between variables.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement (I) and Statement (II) are correct
- (B) Both Statement (I) and Statement (II) are incorrect
- (C) Statement (I) is correct but Statement (II) is incorrect
- (D) Statement (I) is incorrect but Statement (II) is correct

29. In a certain coding scheme 'MOTHER' is coded as 'OQVJGT', how will 'PARTNER' be coded in the same coding scheme?

- (A) RDUTOHU
- (B) REUTOHU
- (C) RETUOGT
- (D) RCTVPGT

30. Mediated communication reflects

- (A) The communicator's cultural background
- (B) Social expectations of the under-privileged
- (C) Ethical desires of the society
- (D) Majoritarian hegemony of language

31. Two numbers are in the ratio of 6:7. If 12 is added to each of the numbers, their ratio becomes 7:8. Find the two numbers.

- (A) 72, 84
- (B) 84, 96
- (C) 84, 98
- (D) 96, 84

32. Which of the following are the traits of non-verbal communication?

- (a) It has limited meaning.
- (b) It does not have substitution.
- (c) It can convey contextual meaning.
- (d) It can influence receptors.
- (e) It can affect personal relationship.

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (e) only
- (D) (a), (d) and (e) only

33. Which of the following is the name of the founder of Classical Indian School of Logic?

- (A) Kumaril
- (B) Kautilya
- (C) Gautam
- (D) Isvarkrishna

34. Miss Madhu clicks on a web link received in a message on her phone which promises her a complimentary trip to a destination of her choice. She forwarded this message to her friend, Arun and asked him to do the same. But Arun refuses and tells Madhu that her personal and private information, such as online account names, login information and passwords can be stolen and she should be careful of such \_\_\_\_\_ attacks.
- (A) Phishing
  - (B) Spamming
  - (C) Scamming
  - (D) Plagiarism
35. Which Committee/ Commission stressing upon women's education stated that, "women's and men's education should have many elements in common, but should not be in general, identical in all respects, as is usually the case today."
- (A) Kasturirangan Committee
  - (B) Radhakrishnan Commission
  - (C) Anandkrishnan Committee
  - (D) Kothari Commission
36. The only energy source which is not in any way related to Sun is
- (A) Hydro
  - (B) Tidal
  - (C) Wind
  - (D) Geothermal
37. The University Grants Commission (UGC) covers the following:
- (a) Universities
  - (b) University Teaching Departments
  - (c) Affiliated colleges
  - (d) Teacher Training Institutions
  - (e) Nursing Institutions

Choose the correct answer from the options given below:

- (A) (a), (b) and (c) only
  - (B) (a), (d) and (e) only
  - (C) (a), (b) and (d) only
  - (D) (b), (c) and (d) only
38. Find the missing term in the given series.  
16, 20, 25, 30, 36, 42, 49, ?
- (A) 91
  - (B) 64
  - (C) 56
  - (D) 70
39. Which of the following are correct in the case of Learning Management System (LMS)?

- (a) LMS is a software.
- (b) LMS can be used for virtual teacher-student groups.
- (c) LMS is a hardware.
- (d) LMS can be used for online quizzes.
- (e) LMS can be used for making institutional websites.

Choose the correct answer from the options given below:

- (A) (a), (b) and (e) only
- (B) (b), (c) and (d) only
- (C) (a), (b) and (d) only
- (D) (a), (b), (d) and (e) only

40. Given below are two statements:

Statement (I): Millennium Development Goals (MDGs) had a total of 31 targets to be achieved by 2015.

Statement (II): There are 8 goals in MDGs and 17 in SDGs.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

41. Miss Anita is excited to use a new software which is freely available to download but she cannot modify or change the source code, Anita is using:

- (A) Freeware
- (B) Open-source software
- (C) Firmware
- (D) Liveware

42. Both qualitative and quantitative research are concerned with

- (A) Data reduction
- (B) Artificial settings
- (C) Uniformity of data
- (D) Social fantasy

43. Given below are two statements:

Statement (I): The binary equivalent of decimal number  $(19)_{10}$  is  $(10101)_2$

Statement (II):  $(1011)_2 + (110)_2 = (10101)_2$

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

44. Which of the five essential characteristics of the middle term (hetu) is violated when an inference involves a non-inferentially contradicted middle?

- (A) Middle term must be absent in all negative instances in which the major term is absent.
- (B) Middle term must be non-incompatible with the minor term.

- (C) Middle term must be present in the minor term.
- (D) Middle term must be present in all positive instances in which the major term is present.

45. Individuals participating in online communities can remain anonymous and create fictitious personas. The ethical concern of this anonymity is that it
- (A) facilitates engagement in unethical behavior.
  - (B) promotes free expression of ideas.
  - (C) enables the government to check the background of communities.
  - (D) simplifies business market research.

Read the following passage and answer questions from 46 to 50.

The mechanism of commodification involves platforms transforming online and offline objects, activities, emotions and ideas into tradable commodities. These commodities are valued through four different types of currency: attention, data users and money. Commodification is intensified by mechanisms of datafication as the massive amount of user data is collected and processed by online platforms.

This provides insight into users' interests, preferences and need at particular moments in time. It also ties into mechanisms of selection as these users are connected with personalized services and advertisements. Commodification includes, but does not equal, business models of singular platforms. Rather, the mechanism plays out in the multi-sided markets created through the platform ecosystem, which connects the infrastructural core with sectoral platforms.

Commodification mechanisms are simultaneously empowering and disempowering to users. The connector platforms allow individual users to market their personal assets or experiences online- be it, their apartments, ride, eyewitness report or video. They help commodity users' activity, enabling users to become entrepreneurs in their own right. On the other hand, the same platform mechanisms of commodification involve the exploitation of cultural labour, labour of users and on-demand service workers. Furthermore, these mechanisms lead to a concentration of economic power in the hands of a few platform owners and operators who act as aggregators and gatekeeping mediators.

46. When massive amounts of user data are processed by online platforms, it is known as
- (A) Personalised service
  - (B) Selection mechanism
  - (C) Data ecosystem
  - (D) Datafication
47. Commodification mechanisms are
- (A) All powerful
  - (B) Data producers
  - (C) Legacy institutions
  - (D) Paradoxical instruments to users
48. Commodification mechanism has its place in
- (A) Traditional business models
  - (B) Multisided markets
  - (C) Online support systems
  - (D) Single commodity markets

49. When ideas and emotions are converted into tradable commodities, it is a form of  
 (A) Transformational trade.  
 (B) User preference.  
 (C) Commodification.  
 (D) Currency manipulation.
50. The passage presents the different facets of  
 (A) Online empowerment  
 (B) Online business models  
 (C) Sectoral platforms  
 (D) Commodification of intangible assets

**ANSWER KEY**

Q. NO	ANSWERS	Q. NO	ANSWERS
1	A	26	A
2	D	27	A
3	B	28	C
4	C	29	D
5	C	30	A
6	B	31	A
7	C	32	C
8	D	33	C
9	A	34	A
10	B	35	B
11	D	36	D
12	D	37	A
13	C	38	C
14	C	39	C
15	B	40	D
16	D	41	A
17	D	42	A
18	D	43	B
19	B	44	B
20	D	45	A
21	D	46	D
22	D	47	B, D
23	B	48	B
24	D	49	C
25	D	50	D



In order to win  
you need to begin  
**GET STARTED...**



20-11-2021 ARB\_ FN

(1-5) Consider the following table that shows the percentage (%) distribution of workforce of India and ratio of male to female workforce of India in different employment sectors during a given year. Total workforce in all the sectors put together is 80 lakhs. Based on the data contained in the table. answer the question:

Sector-wise Distribution of Workforce of India

Employment Sector	Workforce of India	
	Percentage (%) Distribution	Ratio of Male to Female (M: F)
Service (SE)	15%	3:2
Sales (SA)	12%	5:3
Construction and Maintenance(M)	9%	5:4
Professional (PR)	18%	5:7
management (MA)	21%	3:4
Production and Transport (PT)	19%	5:3
Others (OT)	6%	3:5

- The number of male workforce in SA and MA sectors put together is approximately what percent of the total number of workforce in PT sector?  
(A) 82%  
(B) 87%  
(C) 89%  
(D) 85%
- The difference in the number of female workforce in SA and MA sectors put together and the number of female workforce in PT sector is :  
(A) 5.1 lakhs  
(B) 7.5 lakhs  
(C) 5.7 lakhs  
(D) 13.2 lakhs
- The number of female workforce in SE and PR sectors put together is what percent of the number of male workforce in CM sector?  
(A) 330%  
(B) 318%  
(C) 320%  
(D) 80%
- What is the ratio of the number of female workforce in CM sector compared to the number of male workforce in PR and OT sectors put together?  
(A) 17 : 39

- (B) 16 : 37
- (C) 16 : 35
- (D) 16 : 39

5. What is the average number of male workforce in all the sectors put together? (rounded-off to two decimal places)
- (A) 6.39 lakhs
  - (B) 4.69 lakhs
  - (C) 5.96 lakhs
  - (D) 7.48 lakhs
6. If someone sells an item at a cost of Rs. 1,200/- with a loss of 25%, at what cost she/he should have sold it to get a profit of 30%?
- (A) Rs. 1,600/-
  - (B) Rs. 2,000/-
  - (C) Rs. 2,080/-
  - (D) Rs. 1,560/-
7. NEP-2020 proposes to establish NETF. What are the stipulated functions of this body?
- (A) Articulate new directions for research and innovation in technology.
  - (B) Provide a platform for free exchange of ideas on use of technology to understand learning.
  - (C) Engage multilingual experts to help promotion of all Indian Languages.
  - (D) Advancing international research efforts to address global challenges in healthcare agriculture and climate change using AI (Artificial Intelligence).
  - (E) Build intellectual and institutional capacities in Educational technology.

Choose the correct answer from the options given below :

- (A) (A), (D), (E) only
- (B) (A), (B), (E) only
- (C) (B), (D), (E) only
- (D) (A), (C), (D) only

8. Given below are two statements

Statement (I) : According to classical Indian Logic the psychological sequence also corresponds to the logical sequence.

Statement (II) : The logical structure represents not how we ought to infer, but how, as a matter of fact, we do infer.

In the light of the above statements,

choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false

(D) Statement (I) is false but Statement (II) is true

9. Given below are two statements

Statement (I) : Achievement and aptitude tests are designed to assess the upper limits of the examinees' knowledge and abilities.

Statement (II) : Objective personality tests and projective personality tests are designed to measure the typical behaviour and characteristics of examinees.

In the light of the above statements, choose the most appropriate answer from the options given below:

(A) Both Statement (I) and Statement (II) are correct

(B) Both Statement (I) and Statement (II) are incorrect

(C) Statement (I) is correct but Statement (II) is incorrect

(D) Statement (I) is incorrect but Statement (II) is correct

10. Which of the following natural hazards is characterized by progressive occurrence and multicausality?

(A) Earthquake

(B) Volcanic eruption

(C) Epidemic

(D) Storm

11. By selling 33 litres of milk, one gains the selling price of 11 litres. Find the gain in percentage :

(A) 25%

(B) 50%

(C) 70%

(D) 80%

12. From the list given below, identify the Psychological barriers to communication

(A) Noise

(B) Invisibility

(C) Prejudice

(D) Disinterest

(E) Inattention

Choose the most appropriate answer from the options given below :

(A) (A), (B) and (C) only

(B) (B), (C) and (D) only

(C) (C), (D) and (E) only

(D) (A), (C) and (D) only

13. Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : The more performative broadcast is also more cohesive and popular, but owing to new media its effect is decreasing.

Reasons (R) : Internet is tending to eclipse broadcast media.

In the light of the above statements,

choose the most appropriate answer from the options given below

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)
- (C) (A) is correct but (R) is not correct
- (D) (A) is not correct but (R) is correct

14. The abbreviation NMSHE, in the context of Climate Action Plan of Govt. of India, stands for
- (A) National Mission on Solar-Hydro Energy
  - (B) National Mission on Sustaining Himalayan Ecosystem
  - (C) National Mission on Sustainable Hydrogen Energy
  - (D) National Mission on Survey of Himalayan Ecosystem

15. Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : The purpose underlying modern and ICT based support system in teaching is to optimise learning outcomes.

Reasons (R) : An effective instructional support system has to be linked with enhancement of learning conditions.

In the light of the above statements,

choose the correct answer from the options given below

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

16. Which of the following is an ozone depleting substance?

- (A) Sulphur dioxide
- (B) Methyl chloride
- (C) Carbon dioxide
- (D) Methane

17. Which of the following are e-learning platforms?

- (A) SWAYAM
- (B) PARAKH
- (C) SWAYAMPRAKHA
- (D) DIKSHA
- (E) MOOC

Choose the correct answer from the options given below :

- (A) (A), (B), (E) only
- (B) (A), (C), (D) only
- (C) (B), (C), (D) only
- (D) (C), (D), (E) only

18. Which Newspaper logo bears “Let Truth prevail”?

- (A) The Statesman
- (B) Times of India
- (C) The Tribune

(D) The Hindu

19. Hypothesis testing which results into either affirmation or disaffirmation is the explicit concern in which methods of research?
- (A) Descriptive method
  - (B) Experimental method
  - (C) Ex Post Facto method
  - (D) Historical method
  - (E) Exegetical method

Choose the correct answer from the options given below :

- (A) (A) and (B)
- (B) (B) and (C)
- (C) (C) and (D)
- (D) (D) and (E)

20. Given below are two statements

Statement (I) : There is no difference between format and styles of writing and referencing in a thesis and a research article.

Statement (II) : Research ethics and its observance is mandatory for all researches.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

21. In context of Higher Education, Hon'ble Supreme Court directed which of the following national body/organisation to frame and prescribe a course in Environment Education?
- (A) UGC ; ;
  - (B) NCTE
  - (C) NCERT ; ;
  - (D) AICTE

22. Identify the correct order of the following storage capacities ranked from largest to smallest capacity
- (A) 1500 M Bytes
  - (B) 5 K Bytes
  - (C) 1 G Bytes
  - (D) 2 T Bytes

Choose the correct answer from the option given below :

- (A) (D), (A), (C), (B)
- (B) (A), (D), (C), (B)
- (C) (A), (B), (C), (D)
- (D) (D), (C), (A), (B)

23. Which type of research encourages participant's perspective?

- (A) Ethnographic method
- (B) Historical research
- (C) Exegetic research
- (D) Experimental research

24. Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : A research hypothesis (H<sub>1</sub>), has to be tested with the help of a Null hypothesis called (H<sub>0</sub>).

Reasons (R) : Tenability of research hypothesis (H<sub>1</sub>) cannot be directly affirmed.

In the light of the above statements, (Cancelled Question)

choose the most appropriate answer from the options given below

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)
- (C) (A) is correct but (R) is not correct
- (D) (A) is not correct but (R) is correct

25. The following is a list of some basic teaching competencies identified through various researches on teaching. Which among of them fall in the domain of behavioural competencies?

- (A) Self efficacy
- (B) Planning
- (C) Locus of control
- (D) Communicating
- (E) Flexibility

Choose the correct answer from the options given below :

- (A) (A) and (B)
- (B) (B) and (C)
- (C) (D) and (E)
- (D) (B) and (D)

26. Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : Every general-purpose computer must have an Operating System (OS) installed on it.

Reasons (R) : Man and Computer cannot communicate directly.

In the light of the above statements,

choose the correct answer from the options given below

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

27. Given below are two statements regarding a smartphone that has both Bluetooth and Wi-Fi technology :



Statement (I) : Wi-Fi has a shorter range than Bluetooth.

Statement (II) : Wi-Fi can transmit data at a faster rate than Bluetooth.

In the light of the above statements,

choose the correct answer from the options given below:

- (A) Both Statement (I) and Statement (II) are true
- (B) Both Statement (I) and Statement (II) are false
- (C) Statement (I) is true but Statement (II) is false
- (D) Statement (I) is false but Statement (II) is true

28. Which among the following goals adopted by the UN member States in 2015 is related to SDG-4?

- (A) Good health and well being
- (B) Quality education
- (C) Poverty alleviation
- (D) Industry innovation and infrastructure

29. Which of the following schools of Classical Indian Philosophy reduce Sabda pramima (verbal authority) to inference?

- (A) Nayaya
- (B) Vai st e s ikas
- (C) Buddhists
- (D) Nlimitmsit
- (E) CarvakaiLokayata

Choose the correct answer from the options given below :

- (A) (B) and (C) only
- (B) (B), (C) and (E) only
- (C) (B) and (E) only
- (D) (A), (D) and (E) only

30. In which level of teaching, the main focus is laid on capturing and systematic presentation of ideas and information?

- (A) Memory level
- (B) Understanding level
- (C) Reflective level
- (D) Autonomous development level

31. The average monthly expenditure of a family was Rs. 4,000/- for the first 3 months; Rs. 4,500/- for the next 4 months and Rs. 5,000/- for the last 5 months of a year. If the total saving during the year was Rs. 5,000, find the average monthly income of the family

- (A) Rs. 3,000/-
- (B) Rs. 4,000/-
- (C) Rs. 5,000/-
- (D) Rs. 6,000/-

32. Which one of the following sources of knowledge (pramāna) in classical Indian Philosophy is based on similarity of the unobserved object with a known object?



- (A) Arthāpatti
- (B) Anumāna
- (C) Upamāna
- (D) Unuplabdhi

33. Every year Press Council of India celebrates the National Press-Day on :

- (A) January 30
- (B) May 30
- (C) October 15
- (D) November 15

34. If the cost price is 95% of the selling price, then what is the profit in percentage?

- (A) 4.26%
- (B) 5.26%
- (C) 5%
- (D) 7.2%

35. Match List I with List II. List I gives steps of research while List II provides techniques used.

List I	List II
Steps of research	Techniques used
(A) Problem formulation	(I) Tabular and graphical representation of data
(B) Hypothesis making	(II) Drawing a subset from a larger set
(C) Selecting a sampling procedure of enquiry	(III) Raising pivotal question in a field
(D) Data Analysis	(IV) Setting up relationship among variables of research

Choose the correct answer from the option given below :

- (A) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (B) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (C) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
- (D) (A)-(III), (B)-(I), (C)-(II), (D)-(IV)

36. Match List I with List II

List I	List II
Steps of Argument	Propositions
(A) Affirmation of the thesis as proven	(I) Wherever there is smoke, there is fire as in the kitchen

(B) Statement of reason	(II) There is fire on the hill
(C) Giving an example of underlying rule	(III) Therefore there is fire on the hill
(D) Statement of thesis to be established	(IV) Because there is smoke

- (A) A-I, B-III, C-IV, D-II  
 (B) A-IV, B-III, C-I, D-II  
 (C) A-III, B-IV, C-I, D-II  
 (D) A-II, B-I, C-III, D-IV

37. For emerging field of mass communication researcher Paul Lazarsfeld proved to be seminal thinker and researcher in what way?

- (A) For exploring the potential of Social Science methods.  
 (B) For providing training with a high level of entrepreneurial skill.  
 (C) For raising the standard of American Education System.  
 (D) For making assumptions that media have limited direct effect.

Choose the most appropriate answer from the options given below :

- (A) (A) and (B) only  
 (B) (B) and (C) only  
 (C) (C) and (D) only  
 (D) (A) and (D) only

38. Which of the following pollutants have adverse implications for human health as well as climate change?

- (A) Nitrogen dioxide  
 (B) Particulate matter (PM2.5)  
 (C) Ozone  
 (D) Methane  
 (E) Nitrous oxide

Choose the correct answer from the options given below :

- (A) (B), (C) and (D) only  
 (B) (A), (B) and (C) only  
 (C) (B) and (D) only  
 (D) (B) and (C) only

39. Match List I with List II. List I names various organizations while List II gives their location :

List I	List II
(A) NAAC	(I) Delhi
(B) NIEDA	(II) Bengaluru
(C) NDRI	(III) Lucknow

(D) CDRI

(IV) Karnal

- (A) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)  
 (B) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)  
 (C) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)  
 (D) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

40. An IT Company has recently produced a new laptop model that uses less power, is smaller in size and weighs less than previous laptop models. The technology that has been used to accomplish this, is :

- (A) Faster RAM  
 (B) Blu-Ray Drive  
 (C) Solid State Hard Drive  
 (D) LCD Technology

41. What is the correct sequence of steps in case of inference according to Indian Logic?

- (A) Statement of similarity/applicability of the example to case in consideration (upanaya)  
 (B) Statement of Reason (hetu)  
 (C) Affirmation of the thesis as proved (nigmana)  
 (D) Statement of thesis (Pratijñā)  
 (E) Giving an example of the underlying rule (udāharana)

Choose the correct answer from the options given below :

- (A) (D), (E), (A), (C), (B)  
 (B) (D), (C), (B), (A), (E)  
 (C) (D), (B), (E), (A), (C)  
 (D) (D), (E), (A), (B), (C)

42. Which of the following sources of energy is not a form of solar power?

- (A) Tidal Power  
 (B) Wind Power  
 (C) Coal  
 (D) Hydro Power

43. Match List I with List II :

List I (Computer Terms)	List II (Purpose)
(A) OCR	(I) Used to scan typed or handwritten documents
(B) OMR	(II) Used to mark multiple-choice examinations
(C) Email	(III) Asynchronous Communication
(D) Instant Messaging	(IV) Synchronous Communication

Choose the correct answer from the option given below :

- (A) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)  
 (B) (A)-(II), (B)-(I), (D)-(IV), (C)-(III)  
 (C) (A)-(I), (C)-(III), (D)-(IV), (B)-(II)  
 (D) (A)-(I), (C)-(IV), (D)-(III), (B)-(II)

44. Find the average of all prime numbers between 70 to 90 (Cancelled Question)

- (A) 76.5  
 (B) 98.25  
 (C) 55.75  
 (D) 56.75

45. Match List I with List II

List I gives the methods of teaching in Institutions of higher learning while  
 List II provides the techniques of increasing effectiveness of the method.

List I	List II
Methods of teaching	Techniques for increasing effectiveness
(A) Face to face interactive method	(I) Using Swayam and Moocs
(B) Open and distance learning method	(II) Programmed instructional packages
(C) Individualized method of teaching	(III) Modular instructional material
(D) Online methods of teaching	(IV) Reflective questions coupled with discussion

Choose the correct answer from the option given below :

- (A) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)  
 (B) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)  
 (C) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)  
 (D) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

(46-50)

Read the passage carefully and answer the questions that follow:

The Corona Virus COVID-19 pandemic is the defining global health crisis of our time and the greatest challenge we have faced since World War Two. Since its emergence in Asia late last year, the virus has spread to every continent except Antarctica. We have now reached the tragic milestone of one million deaths, and the human family is suffering under an almost intolerable burden of loss. But the pandemic is much more than a health crisis, its also an unprecedented socio economic crisis. Stressing every one of the country it touches, it has the potential to create devastating social, economic and political effects that will leave deep and longstanding scars. UNDP is the technical lead in the UN's socio economic recovery, alongside the health response lead by WHO, and the Global Humanitarian Response Plan, and working under the leadership of

the UN Resident Coordinators. Every day, people are losing jobs and income, with no way of knowing when normality will return. Small island nations, heavily dependent on tourism, have empty hotels and deserted beaches. The International Labour Organisation estimates that 400 million jobs would be lost. The World Bank projects a US \$110 billion decline in remittances this year, which could mean 800 million people will not be able to meet their basic needs.

46. The major crisis faced by the world since World War II is in which area?
- (A) Industrial
  - (B) Technological
  - (C) Communication
  - (D) Health
47. The pandemic has left which of the following area unaffected?
- (A) Social
  - (B) Economic
  - (C) Travel and tourism
  - (D) Telecommunication
48. In the wake of COVID-19 which of the following organisations/establishments will have least chances of closure?
- (A) Tourism industry
  - (B) Health care centres
  - (C) Industrial establishments
  - (D) Educational institutions
49. Which of the following organization has given technical lead in the UN's socio-economic recovery plan?
- (A) UNDP
  - (B) UNICEF
  - (C) UN-GHRP
  - (D) UNSC
50. Which continent is least affected by COVID-19?
- (A) Asia
  - (B) North America
  - (C) Australia
  - (D) Antarctica

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	A
2	B	27	D
3	A	28	B
4	D	29	A
5	C	30	A
6	C	31	C
7	B	32	C
8	A	33	----
9	A	34	B
10	C	35	A
11	B	36	C
12	C	37	A
13	A	38	D
14	B	39	B
15	A	40	C
16	B	41	C
17	B	42	C
18	B	43	C
19	B	44	----
20	D	45	C
21	A	46	D
22	A	47	D
23	A	48	B
24	----	49	A
25	D	50	D



You will win if you  
don't quit  
**YOU CAN DO IT**

## 25-11-2021 COM\_ FN

Study the table carefully and answer the questions that follow Given below is a table that shows the expenditure of a company (in Lath Rupees) per annum over the given years.

Expenditure item Year	Salary	Travel	Hospitality	Interest on Loan	Taxes
2016	330	70	30	28	80
2017	380	65	33	31	87
2018	420	72	35	33	91
2019	450	75	40	36	94
2020	480	84	43	39	97

1. In which year is the ratio of Salary to Hospitality maximum?

- (A) 2017
- (B) 2018
- (C) 2019
- (D) 2020

2. What is the average expenditure on Travel and Hospitality during 2016 to 2020?

- (A) 108.3
- (B) 108.7
- (C) 109.4
- (D) 110.5



3. The difference between average expenditure on 'Taxes' and average expenditure on 'Interest on Loan' is:

- (A) 54.8
- (B) 55.6
- (C) 56.4
- (D) 57.2

4. Increase of expenditure from 2019 to 2020 in percentage is:

- (A) 5.3
- (B) 5.8
- (C) 6.9
- (D) 7.2

5. In which year is the Travel expenditure (as a percentage) minimum?

- (A) 2017
- (B) 2018
- (C) 2019
- (D) 2020

6. Kigali Amendment to the Montreal Protocol envisages reduction in HFCs consumption by late 2040s to the extent of

- (A) 50-55%
- (B) 65-70%
- (C) 80-85%
- (D) 90-95%

7. Given below are two statements:

Statement I: A number is divisible by 12 if the number is divisible by both 3 and 4.

Statement II: A number is divisible by 3, if and only if the sum of all the digits of the number is divisible by 6.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true

- (C) Statement I is false but Statement II is true<sup>5136</sup>,  
(D) Statement I is true but Statement II is false

8. The key objective of RUSA is to improve:

- A. Access
- B. Equity
- C. Quality
- D. Infrastructure
- E. Curriculum

Choose the correct answer from the options given below:

- (A) A, B and E only
- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

9. Consider 'E' proposition as True and 'I' as False in a square of opposition of proposition and pick the correct answer from the options given below

- (A) 'A' is True; 'A' is True
- (B) 'I' is False; 'E' is True
- (C) 'O' is False; 'E' is False
- (D) 'O' is Undetermined; 'O' is Undetermined

10. Which of the following is considered unethical communication?

- (A) Non-commercial publicity
- (B) Not revealing the source of information
- (C) Propaganda
- (D) Use of alternative source of information

11. 'I see a piece of fragrant sandalwood' would correctly represent

- (A) Jñānalakshana
- (B) Nirvikalpa Pratyakṣa
- (C) Samanyalakshna
- (D) Yogaja

12. Sometimes, subjects who know that they are in a control group may work hard to excel against the experimental group. Such a phenomenon is known as

- (A) Compensatory Rivalry
- (B) Controlled Competition
- (C) Inspirational Influence
- (D) Motivational Contest

13. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: A research question should have some connection with an existing theory or research.

Reason R: The research question formulated should be either too broad or too narrow.

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

14. Which of these decision traps pertains to thinking and planning activities?

- A. NOT keeping records
- B. Overconfidence
- C. Plunging-in
- D. Frame-blindness
- E. Poor frame control

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and E only
- (C) B, C and D only
- (D) C, D and E only

15. Given below are two statements, one is labelled as Assertion A and the other is labelled as

Reason R

Assertion A: VisiCalc, the first spreadsheet software application, is a commonly cited example of one of the first killer applications.

Reason R: VisiCalc helped in bringing PCs into the business realm.

In light of the above statements

choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

16. How many minutes is it before 12 noon if 48 minutes ago it was three times as many minutes past 9 AM?

- (A) 33 minutes
- (B) 40 minutes
- (C) 43 minutes
- (D) 43.5 minutes

17. The population of a bacteria culture increases at a rate of 4% per annum. There is an additional increase of 1% of the population due to some reason. The percentage increase in the population after two years is, therefore

- (A) 10.25
- (B) 10.5
- (C) 10.75
- (D) 10

18. The NEP-2020 recommends that the duration of the B.Ed. programme will be of

- A. One year
- B. Two years
- C. Three years
- D. Four years
- E. Five years

Choose the correct answer from the options given below:

- (A) A, B and D only
- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

19. Match List I with List II

List I	List II
Content Area	Integrating Technology Application
A. Reading/Language Arts	I. Software programs to develop basic reading skills
B. Mathematics	II. Simulations to explore distant places and times
C. Science	III. Graphing calculations to illustrate abstract or hard-to-visualize relationships
D. Social Studies	IV. Simulations to illustrate complex relationships

Choose the correct answer from the options given below:

- (A) A - I, B - III, C - IV, D - II
- (B) A - II, B - I, C - III, D - IV
- (C) A - III, B - IV, C - II, D - I
- (D) A - IV, B - II, C - I, D - III

20. Name the fallacy committed in the statements below

"All text books are books intended for careful study.

Some reference books are books intended for careful study.

Therefore, some reference books are text books."

Choose the correct answer from the options given below

- (A) Affirmative conclusion from Negative Premise
- (B) Exclusive Premises
- (C) Existential Fallacy
- (D) Undistributed Middle

21. Arrange these instructional events for delivering the lesson to students in sequential order from the beginning to the end.

- A. Informing the learner of the objectives
- B. Eliciting desired behaviour
- C. Gaining attention
- D. Presenting the content
- E. Providing feedback

- (A) A, D, B, C, E
- (B) B, C, A, E, D
- (C) C, A, D, B, E
- (D) D, C, B, A, E

22. Which of the following statement/s is/are correct?

- A. Yaman crosses a 600m long road in 5 minutes. His speed is 7.2 km/hr
- B. Vinod performs  $\frac{2}{15}$  of his total journey by train;  $\frac{9}{20}$  by bus and rest 10 km on cycle. his total journey is 24 km
- C. Anita can complete a work in 8 days. She can complete  $\frac{1}{8}$  fraction of the work in two days

Choose the correct answer from the options given below

- (A) A and B only
- (B) A and C only
- (C) A only
- (D) B only

23. Which of the following are 'deemed to be university'?

- A. NCERT
- B. NIEPA
- C. Jamia Hamdard
- D. Jamia Millia Islamia

E. IIIT

Choose the correct answer from the options given below:

- (A) A and B only
- (B) B and C only
- (C) C and D only
- (D) D and E only

24. Identify the correct sequence of BRICS countries in relation to their Sustainable Development Goals Index (from highest to lowest) as per the Sustainable Development Report (2020)

- A. China
- B. India
- C. South Africa
- D. Brazil
- E. Russian Federation

Choose the correct answer from the options given below

- (A)  $A > D > E > C > B$
- (B)  $C > D > E > A > B$
- (C)  $C > E > B > D > A$
- (D)  $E > D > C > A > B$

25. Pick the correct code. (Cancelled Question)

- (A) A valid syllogistic argument cannot have two negative premises
- (B) Middle term must be distributed at least once in the premises of a syllogistic argument
- (C) With one negative premise in a syllogistic argument, the conclusion is negative
- (D) With two particular premises in a syllogistic argument, a universal conclusion can be drawn

26. Match List I with List II

List I	List II
A. NIEPA	I. Promotion of quality in technical education
B. NAAC	II. To promote research in social sciences

C. AICTE	III. Planning and management of education
D. ICSSR	IV. Accreditation of higher education institutions

- (A) A - III, B - IV, C - I, D - II
- (B) A - III, B - IV, C - II, D - I
- (C) A - IV, B - II, C - I, D - III
- (D) A - IV, B - III, C - II, D - I

27. The characteristics of longitudinal studies are:

- A. Limited results
- B. Do not need heavy investment
- C. Provide alternative choices
- D. Allow insight into the time order of variables
- E. Focuses on individual or institutional developments

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and D only
- (D) C, D and E only

28. The permissible limit for Arsenic in drinking water, as per Indian Standards [IS:10500] is

- (A) 0.05 mg/L
- (B) 0.5 mg/L
- (C) 0.5mg/L
- (D) 2.0 mg/L

29. Which of the following statements about internal and external computer memory are true?

- A. A portable hard drive is an example of internal memory
- B. Magnetic tape is used to store backups of data
- C. RAM is an internal memory



D. ROM loses its data when the power is turned off

Choose the correct answer from the options given below:

- (A) A and C only
- (B) A and B only
- (C) B and C only
- (D) C and D only

30. Communication means \_\_\_\_\_ of information.

- A. Suppression
- B. Exchange
- C. Understanding
- D. Contextualisation
- E. Abstraction

Choose the correct answer from the options given below:

- (A) A, B and E only
- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

31. With respect to a music teacher who wishes to use a computer to help him to create training material, match List I with List II

List I	List II
Training Material	Most Appropriate File Format
A. Printed copies of instructions on how to play his music	I. MP3
B. Sound files of him playing his music	II. DOC
C. Video files of him playing his music	III. JPEG
D. Images of the instruments he teaches	IV. AVI

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D - IV  
 (B) A - II, B - I, C - III, D - IV  
 (C) A - II, B - I, C - IV, D - III  
 (D) A - III, B - I, C - IV, D - II

32. Match List I with List II

List I	List II
Concept of Power Communication	Description of feature
A. Legitimate power	I. Specialised knowledge
B. Referent power	II. By virtue of position
C. Reward power	III. When others feel to be like you
D. Expert power	IV. Control over what others seek

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D - IV  
 (B) A - II, B - III, C - IV, D - I  
 (C) A - III, B - IV, C - I, D - II  
 (D) A - IV, B - I, C - II, D - III

33. Given below are two statements:

Statement I: In communication, language ambiguity takes place because of the incorrect use of words.

Statement II: Informal time terms lead to different interpretations.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct  
 (B) Both Statement I and Statement II are incorrect  
 (C) Statement I is correct but Statement II is incorrect  
 (D) Statement I is incorrect but Statement II is correct

34. Given below are two statements:

Statement I: You can make the behaviours you teach, more authentic by changing the irrelevant aspects or context of what you are teaching as often as possible and in as many different ways as possible.

Statement II: To teach behaviour that is authentic, your lesson need not present content in a way in which it will be used by your learners on assessments, in subsequent grades, and in the world outside your classroom.

In light of the above statements,

choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

35. CBCS provides an opportunity for students to choose courses from:

- A. Core courses
- B. Environmental education
- C. Elective courses
- D. Computer courses
- E. Ability enhancement courses

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and E only
- (C) B, C and D only
- (D) C, D and E only

36. Which one of the following is a disadvantage of using proprietary software rather than open source software?

- (A) Proprietary software can only be accessed with a password
- (B) Proprietary software can only be used on proprietary systems
- (C) Proprietary software can only be used with an Internet connection
- (D) Proprietary software is usually more expensive

37. Which of the following is NOT a constituent-member of the Indian syllogistic argument?

- (A) Hetu
- (B) Samśaya
- (C) Udaharana
- (D) Upanaya

38. Which of the following are determinants in transactional communication?

- A. Social context
- B. Cultural context
- C. Relational context
- D. Legal context
- E. Delayed context

Choose the correct answer from the options given below:

- (A) A, B and E only
- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

39. Which number comes next in this sequence?

1, 1.5, 2.5, 4, ?

- (A) 5.5
- (B) 5
- (C) 6.5
- (D) 6

40. Analytic Induction is a method of

- A. Systematic interpretation of events
- B. Generating hypothesis
- C. Testing hypothesis
- D. Freestyle interpretation
- E. Testing null hypothesis only

- (A) A, B and E only

- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

41. Match List I with List II

List I	List II
Description	Appropriate Technical Term
A. Numerical ID for each device on the Internet	I. VOIP
B. Unique ID for a Network Interface Card (NIC)	II. URL
C. Use of the Internet to make phone calls	III. MAC Address
D. Text used by web browsers to locate a web address on the Internet	IV. IP Address

- (A) A - I, B - III, C - IV, D - II
- (B) A - II, B - III, C - I, D - IV
- (C) A - IV, B - III, C - I, D - II
- (D) A - IV, B - III, C - II, D - I

42. According to Red list, the percentage of threatened mammals in the world is about

- (A) 20%
- (B) 25%
- (C) 40%
- (D) 45%

43. From the energy security perspective, which of the following energy sources is considered most secure for India?

- (A) Geothermal
- (B) Hydro
- (C) Solar
- (D) Wind

## 44. Match List I with List II

List I	List II
Artifacts	Description
A. History	I. Happens when subjects are given similar pre-tests and post-tests
B. Maturation	II. Subjects' reactions to experimental conditions
C. Testing	III. Occurance of various events during a study
D. Demand characteristics	IV. Biological and psychological characters changing during the course of the study

Choose the correct answer from the options given below:

(A) A - I, B - II, C - III, D - IV

(B) A - II, B - III, C - IV, D - I

(C) A - III, B - IV, C - I, D - II

(D) A - IV, B - I, C - II, D - III

45. The basic free version of 200M web meeting platform allows an online class to be conducted for how many minutes? (Cancelled Question)

(A) 30 minutes

(B) 40 minutes

(C) 50 minutes

(D) 60 minutes

Read the given passage and answer the questions that follow

The social structure of most developing countries no longer consists of a tiny upper class confronting a very large and mainly rural lower class, as earlier stereotypes had it. Intermediate strata have grown and diversified until they are, in at least some respects (recruitment to position of power, control of major political movements) dominant. In almost all of these countries, however, the 'middle strata' remain minorities (sometimes very small minorities) and have not achieved sufficient homogeneity of characteristics and interests to entitle them to the label of class.

The key differences between them and the middle classes in the past of the countries that are now industrialised or developed seem to be the following: first, the much greater importance of the role of formal education in giving access to middle (as well as upper) status; second, the much greater importance of salaried employment, particularly in the public sector, in relation to self-employment in the professions or in small businesses; third, the presence of the 'demonstration effect' from the high income countries continually tending to stretch consumption aspirations beyond income capacity. Independent, frugal, entrepreneurially minded middle groups can still be identified, and some of them are coping resiliently with economic globalisation and other challenges. However, many factors in the situations in which they have found themselves- technological dependency, the dominance of large-scale enterprises, the bureaucratisation of the rules of the game- generally restricted them to secondary roles in economic evolution. Their educational aspiration for their children have been likely to divert most of these into bureaucratic or professional occupations. Moreover, in many cases, they have belonged to cultural minorities or alien immigrant groups encountering resistance once they become economically conspicuous.

46. In the industrialised countries, people attained the status of the middle class because of access to

- (A) Areas of self-employment
- (B) Employable economic sectors
- (C) Formal education
- (D) Special minority tag

47. The passage is focused on

- (A) options of the intermediate strata
- (B) The need for economic globalisation
- (C) The rules of bureaucratisation
- (D) The secondary roles of economic evolution

48. Which of the following are the restrictive factors for the development of middle groups?

- A. Attitude of independence and frugality
- B. Technological dependency
- C. Secondary role of bureaucracy
- D. Powerful and large business houses

Choose the correct answer from the options given below:

- (A) A and B only
- (B) B and C only
- (C) B and D only
- (D) C and D only

49. The present-day social structure in developing countries is punctuated by

- (A) A growing intermediate stratum
- (B) A small group of upper class
- (C) A vast mass of rural class
- (D) Stereotypical classes

50. What do you understand by 'demonstration effect' as mentioned in the passage?

- (A) Control of power positions
- (B) Imitation of consumption aspirations of rich countries beyond one's income
- (C) Mobility from low income group to high income group
- (D) Public sector salaried employment as a goal



### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	A
2	C	27	D
3	C	28	A
4	C	29	C
5	C	30	C
6	C	31	C
7	D	32	B
8	B	33	A
9	B	34	C
10	C	35	B
11	A	36	D
12	A	37	B
13	B	38	B
14	D	39	C
15	C	40	B
16	A	41	C
17	A	42	B
18	A	43	C
19	A	44	C
20	D	45	-----
21	C	46	C
22	A	47	A
23	B	48	C
24	A	49	A
25	-----	50	B

If you can dream it  
you can do it  
**YOU WILL DO IT**



## 25-11-2021 COM\_ AN

Study the table carefully and answer the questions that follows:

In the following table, the total number of students in different courses of a college along with percentage of males and females are given.

Courses	Total number of students	Percentage of male students	Percentage of female students
B.Sc	400	65	35
B.A	650	54	46
M.Sc	280	75	25
M.A	340	55	45
PhD	180	65	35

- Find out the total number of male students in the college,  
(A) 1120  
(B) 1125  
(C) 1130  
(D) 1135
- Find out the difference between the total number of male students and total number of female students in the college.  
(A) 380  
(B) 390  
(C) 400  
(D) 410
- Find out the difference between male students in graduation (BSc + BA) and male students of post-graduation (MA + MSc).  
(A) 213  
(B) 214  
(C) 215  
(D) 216
- Find out the ratio of male students in post-graduation (MSc + MA) and male students in the PhD program. (Cancelled Question)  
(A) 394  
(B) 395  
(C) 396  
(D) 397
- Find out the ratio of female students in graduation (BSc + BA) and female students in post-graduation (MSc + MA)

- (A) 435
- (B) 437
- (C) 438
- (D) 439

6. Given below are two statements regarding the address bus in a computer system

Statement I: Address bus carries signals relating to addresses between the processor and memory

Statement II: It is bi-directional

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

7. Find out the sequence of elements of effective communication as listed by Cutlip et al

- A. Promise of reward
- B. Message clarity
- C. Consistency
- D. Climate of belief
- E. Participatory context

Choose the correct answer from the options given below

- (A) A, B, D, E, C
- (B) C, D, E, A, B
- (C) D, E, A, B, C
- (D) E, A, C, D, B

8. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: To make it easier for government as well as non-government philanthropic organisations to build schools regulations on inputs should be limited to certain areas only.

Reason R: Government should provide effective, enabling and sufficient infrastructure so that all schools have access to safe and engaging school education.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is correct but R is not correct
- (B) A is not correct but R is correct
- (C) Both A and R are correct and R is the correct explanation
- (D) Both A and R are correct but R is NOT the correct explanation of A

9. The angle between hour hand and the minute hand at 3:40 pm is

- (A)  $120^\circ$
- (B)  $125^\circ$
- (C)  $130^\circ$
- (D)  $150^\circ$

## 10. Match List I with List II

List I	List II
ICT Applications	Example
A. Measurement applications	I. Simulating car crashes
B. Control applications	II. River Pollution
C. Modeling applications	III. Automatic oven
D. Expert Systems	IV. Medical diagnosis

Choose the correct answer from the options given below

- (A) A - I, B- II, C-IV, D - III
- (B) A - II, B - III, C-I, D-IV
- (C) A - II, B- III, C-IV, D-I
- (D) A - IV, B-I, C-II, D-III

11. Average of ten positive numbers is X. If each number is increased by 10 %, then new average increases by:

- (A) 10%
- (B) 11%
- (C) 12%
- (D) 8%

12. Which of the following are examples of violation of research ethics?

- A. Violating participant confidentiality
- B. Making recommendations beyond the scope of data collected
- C. Using an inappropriate research design
- D. Changing data to meet a desired outcome
- E. Using a quantitative method in place of a qualitative method

Choose the correct answer from the options given below:

- (A) A, B and D only
- (B) A, B, C and D only
- (C) B, C, D and E only
- (D) B, D and E only

13. A sum of money on simple interest doubles itself in 10 years. It will triple itself in

- (A) 15 Years
- (B) 20 Years
- (C) 30 Years
- (D) 32 Years

14. Identify the fallacy committed in the argument

No tragic actors are happy men.  
Some comedians are not happy men.

Therefore, some comedians are not tragic actors.

- (A) Existential fallacy
- (B) Fallacy of Exclusive Premises
- (C) Fallacy of Illicit Major
- (D) Fallacy of Undistributed

15. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R  
Assertion A: In the case study method, the researcher collects detailed information from a limited number of participants

Reason R: Findings based on case study research can be used to develop research hypotheses/questions for subsequent studies.

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

16. Given below are two statements

Statement I: The average of first twenty multiples of 9 is 92.5.

Statement II: The average of first ten multiples of 11 is 60.5.

In light of the above statements, choose the most appropriate answer from the options given below  
Options:

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

17. Modern mass communication has the characteristics of being

- A. Sporadic
- B. Continuous
- C. Based on a schedule
- D. Not much dependent on technology
- E. Dependent on the use of media

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and E only
- (D) C, D and E only

18. Given below are two statements

Statement I: The core of the teaching process is the arrangement of environments within which students can interact and study how to learn.

Statement II: A model of teaching is not a description of a learning environment.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

19. Which of the following statements is/ are true?

- A. The terms 'true' and 'false' apply to arguments.
- B. The terms 'true' and 'false' apply to statements.
- C. The terms 'valid' and 'invalid' apply to arguments.
- D. The terms 'cogent' and 'non-cogent' apply to statements.

Choose the correct answer from the options given below:

- (A) A and C only
- (B) A and D only
- (C) B and C only
- (D) C and D only

20. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R  
Assertion A: The major deficiency of pre-experimental design is that they fail to provide comparison groups.

Reason R: Equivalence can be achieved through matching and random assignment.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation A
- (D) Both A and R are true but R is NOT the correct explanation of A

21. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R  
Assertion A : Ground level concentration of ozone decreases at night

Reason R : Ultraviolet radiation photolysis the ozone into other components

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A.
- (D) Both A and R are true but R is NOT the correct explanation of A

22. As per NEP-2020, the responsibility to develop Adult Educator Framework has been given to which one of the following organisations?

- (A) MHRD
- (B) NCERT

- (C) NCTE  
(D) NIEPA

23. Identify the correct sequence of Inference from beginning to end, according to the Nyaya system.

- A. Udaharana  
B. Hetu  
C. Pratijia  
D. Nigamana  
E. Upanaya

Choose the correct answer from the options given below

- (A) B, A, C, D, E  
(B) B, A, D, C, E  
(C) C, A, B, E, D  
(D) C, B, A, E, D

24. Match List I with List II

List I	List II
Communication function/Issue	Area of Operation
A. Gatekeeping	I. Time - binding capacity
B. Persuasion	II. News
C. Entropy	III. Advertising
D. Memory	IV. Chaos in communication

Choose the correct answer from the options given below

- (A) A-I, B-II, C-III, D-IV  
(B) A-II, B-III, C-IV, D-I  
(C) A-III, B-IV, C-I, D-II  
(D) A-IV, B-I, C-II, D-III

25. Which one of the following led to the formulation of 10+2+3 system of education?

- (A) Elphinstone report  
(B) Hunter Commission  
(C) Macaulay's Minute  
(D) Wood's dispatch

26. Given below are two statements

Statement I: Aerobic digestion of sewage sludge requires lots of energy

Statement II: Aerobic digestion of sewage sludge produces huge amount of methane

In light of the above statement choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false  
(B) Both Statement I and Statement II are true  
(C) Statement I is false but Statement II is true  
(D) Statement I is true but Statement II is false



27. As students mature, the study of social issues at the community, state, national and international levels can be made available to them. Which model is designed for this purpose
- (A) Group Investigation
  - (B) Jurisprudential inquiry
  - (C) Role playing
  - (D) Structured Inquiry

28. Targets of Goal 7 of the Millenium Development Goals (MDG) are
- A. Control global warming
  - B. Universal access to modern energy
  - C. Increase global percentage of renewable energy
  - D. Mitigating air pollution
  - E. Double the improvement in energy efficiency

Choose the correct answer from the options given below:

- (A) A, B, C and D only
  - (B) A, C, D and E only
  - (C) B, C and D only
  - (D) B, C and E only
29. Given below are two statements
- Statement I: Two contrary statements cannot both be false.
- Statement II: Two contrary statements cannot both be true.
- In light of the above statement choose the correct answer from the options given below
- (A) Both Statement I and Statement II are false
  - (B) Both Statement I and Statement II are true
  - (C) Statement I is false but Statement II is true
  - (D) Statement I is true but Statement II is false
30. 'Solar water still' is a device to
- (A) Convert saline water to potable water using solar energy
  - (B) Generate electricity using solar energy
  - (C) Heat water using solar
  - (D) Pump water using solar energy
31. A device driver is
- (A) A port that connects a device and a system,
  - (B) A software that communicates with the operating system and translates data into a format understood by the device
  - (C) A software that performs disk compression
  - (D) A software that performs disk defragmentation
32. Match List I with List II

List I	List II
Piaget's Stages of Cognitive Development	Approximate age

A. Sensorimotor	I. Begins about the first grade to early adolescent, around 11 years old
B. Preoperational	II. Adolescent to adulthood
C. Concrete operational	III. 0 - 2 years
D. Formal operational	IV. Begins about the time the child starts talking to about 7 years old

Choose the correct answer from the options given below:

- (A) A-I, B-II, C-III, D-IV
- (B) A-II, B-III, C- IV, D-I
- (C) III, B-IV, C-I, D-II
- (D) A-IV, B-I, C-II, D-III

33. Given below are two statements

Statement I: Experimenter effects are errors introduced during the collection or analysis of experimental data due to the behavior of the experimenter.

Statement II: Due to the presence of certain cues in the experimental setting, the participants form an interpretation of the experiment's purpose and subconsciously change their behaviour to fit that interpretation.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

34. Given below are two statements

Statement I: It is obvious that if higher education is not radically improved, our administration and technical progress, our intellectual standards and social advance will be most seriously handicapped. This is a major recommendation of the University Education Commission

Statement II: The University Grants Commission was established in accordance with the recommendation of the National Education Commission

In light of the above statements, choose the most appropriate answer from the options given below  
Options:

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

35. Convention on Biodiversity was signed during

- (A) Earth Summit at Rio de Janeiro, 1992
- (B) Human Environment Conference, Stockholm, 1972
- (C) Kyoto Protocol, 1997
- (D) Montreal Protocol, 1987

36. Discourse analysis in historical research is associated with

- (A) Carr
- (B) Foucault
- (C) Hobsbawn
- (D) Skinner

37. Given below are two statements

Statement I: The primary act of communication begins when an individual decides to use a particular language symbol, susceptible to standardized interpretation, resulting in common meaning.

Statement II: Meaning refers to inner, subjective reactions to images, interpretations, emotions and feelings as given out by the words used.

In light of the above statements, choose the most appropriate answer from the options given below  
Options:

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

38. Arrange the phases for syntax of Group Investigations Model in correct sequence :

- A. Students formulate study task and organize for study
- B. Students analyse progress and process
- C. Students encounter puzzling situation
- D. Independent and Group study
- E. Students explore reactions to the situation

Choose the correct answer from the options given below

- (A) A, C, B, E, D
- (B) B, A, D, E, C
- (C) C, E, A, D, B
- (D) D, E, B, A, C

39. The 4Rs approach to conflict resolution comprises:

- A. Reading
- B. Writing
- C. Respect
- D. Reprimand
- E. Resolution

Choose the correct answer from the options given below

- (A) A, B, C and D only
- (B) A, B, C and E only
- (C) A, B, D and E only
- (D) B, C, D and E only

40. Which of the following statements about Anti-virus software are correct?
- A. Problem files/programs are quarantined and can be automatically removed
  - B. Check all files before being loaded or run
  - C. Use a database to identify potential risks
  - D. Used for data authenticity

Choose the correct answer from the options given below

- (A) A, B and C only
- (B) A, B and D only
- (C) A, C and D only
- (D) B, C and D only

41. Given below are two statements

Statement I: In the Nyāya system, inference is made from the particular to the particular through the Universal.

Statement II: In the Nyāya system, inference is made from the Universal to the Universal through the particular.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

42. The Gandhian method of communication is known as:

- (A) Massive
- (B) Massline
- (C) Non-technological
- (D) Personal

43. What is Anti-spyware software?

- (A) Checks files before they are loaded on a computer
- (B) It detects and removes programs installed illegally on a user's computer system
- (C) Makes the files non-readable
- (D) Manages the data traffic

44. Find the missing term in the following series

2, 9, 37, 149, ?

- (A) 298
- (B) 299
- (C) 594
- (D) 597

45. ERIC is a unit in which one of the following organizations?

- (A) NCERT
- (B) NCTE
- (C) NIEPA
- (D) NRF

Read the given passage and answer the questions that follow

There is a question whether advertising induces demand for an individual company's product more or less elastic. The evidence indicates that the advertising of brands tends to make their demands relatively inelastic for varying periods of time. The data which support this condition are found in the relatively rigid prices of many advertised articles. That brand advertising would have this effect is natural, for an objective of brand advertising is to build consumer preferences. Some consumers will stick by a brand even though its price relationship with competing brands are disturbed. Clearly, the establishment of strong brand preference has led some manufacturers to act as though these preferences made the demand for their brands relatively inelastic. Rarely have they tested the inelasticity of their brands by raising and holding up their prices when competitors have failed to follow similar procedures. Yet, numerous examples were found in which manufacturers in periods of depression held their prices rigid while prices generally and the prices of some competitors were being lowered. In all such instances price competition was found to come into play sooner or later, and either demand shifted to sellers with lower prices or a reduction in price was forced. The quickness with which price competition comes into play varies in different product fields. In the fields of proprietary remedies, the highly individualized nature of the branded products and the tendency of consumers to build strong attachments to brands has given these brands. an inelastic demand over relatively long periods of time. Even in these instances, however, price competition has eventually developed.

46. The demand inelasticity of articles in terms of non-varying prices is due to

- (A) Advertising of branded products
- (B) Consumer ignorance
- (C) Differences in products
- (D) Varying time factor

47. The passage focuses upon

- (A) Impact of advertising on product pricing
- (B) Price competition and branded products
- (C) Promotion of branded products in the sellers' market
- (D) Proprietary remedies for branded articles

48. What was the post-depression development as regards product pricing ?

- (A) Increased market for branded products
- (B) Price competition, resulting in reduction
- (C) Shift in demand to consumers
- (D) Stabilization of prices

49. Why do some manufacturers make their brands of products demand inelastic? It is because of

- (A) Competitors increasing the priceline

- (B) Holding price line
- (C) Market trend
- (D) Strong consumer preference

50. Strong consumer attachment for branded products eventually led to

- (A) Branded products falling in line
- (B) Cartelisation of manufacturers
- (C) Lasting demand inelasticity
- (D) Uniform pricing



### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	D
2	C	27	B
3	B	28	D
4	----	29	C
5	D	30	A
6	D	31	B
7	C	32	C
8	C	33	A
9	C	34	B
10	B	35	A
11	A	36	B
12	A	37	A
13	B	38	C
14	B	39	B
15	D	40	A
16	D	41	C
17	C	42	B
18	C	43	B
19	C	44	D
20	D	45	A
21	D	46	A
22	B	47	B
23	D	48	B
24	B	49	D
25	D	50	A



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## 26-11-2021 COM\_ FN

Study the table carefully and answer the questions that follow

In the following table, total exports and imports of 5 countries over 4 years (in Rs crore) is given. Study the table carefully and answer the given questions. (I – import, E – export)

Year	2017		2018		2019		2020	
Country	I	E	I	E	I	E	I	E
P	25	30	24	32	28	36	22	32
Q	28	26	26	31	29	37	26	34
R	24	32	28	25	32	36	28	34
S	22	28	18	28	16	21	23	32
T	26	31	16	33	12	23	21	28

- Find out the difference between the average export and average import for the country P.  
(A) 7.25  
(B) 7.75  
(C) 8.25  
(D) 8.50
- Which country has the maximum percentage of profit increase from 2019 to 2020?  
(Profit = Export – Import)  
(A) P  
(B) Q  
(C) R  
(D) S
- Find out the ratio of export done by country S and T during 2017 – 2020.  
(A)  $\frac{109}{115}$   
(B)  $\frac{111}{115}$   
(C)  $\frac{108}{117}$   
(D)  $\frac{107}{117}$
- Which year has the maximum export?  
(A) 2017  
(B) 2018  
(C) 2019  
(D) 2020
- Which year has the maximum average import?  
(A) 2017  
(B) 2018  
(C) 2019

(D) 2020

6. A total of 324 coins of 20 paise and 25 paise make a sum of Rs.71. the number of 20 paise coins is

- (A) 124
- (B) 125
- (C) 144
- (D) 200

7. Survey research is based on which of the following?

- (A) Constructivism
- (B) Hermeneutics
- (C) Interpretivism
- (D) Positivism

8. Given below are two statements

Statement I: Truth and falsehood are predicates of arguments

Statement II: Validity and invalidity are predicates of statements

In light of the above statements,

choose the most appropriate answer from the options given below

- (A) Both statement I and statement II are correct
- (B) Both statement I and statement II are incorrect
- (C) Statement I is correct but statement II is incorrect
- (D) Statement I is incorrect but statement II is correct

9. Given below are two statements

Statement I : Exploration is particularly useful when researchers lack a clear idea of the problems they will meet during the study.

Statement II : Through exploration , researchers develop concepts more clearly , establish priorities, develop operational definitions , and improve the final research design.

In light of the above statements,

choose the correct answer from the options given below

- (A) Both statement I and statement II are false
- (B) Both statement I and statement II are true
- (C) Statement I is false but statement II is true
- (D) Statement I is true but statement II is false

10. Match list I with list II

List I	List II
A. Indian Institute of Advanced Study	I. Noida, UP
B. Indian Biological Sciences and Research Institute	II. Shimla, HP
C. Indian Institute of Soil Science	III. Bhopal, MP
D. Indian Institute of Sugarcane Research	IV. Lucknow, UP

Choose the correct answer from the options given below:

- (A) A – 1 , B – IV , C – II , D – III
- (B) A – II , B – I , C – III , D – IV

- (C) A – III , B – IV , C – II , D – I
- (D) A – IV , B – III , C – II , D – I

11. Following are some statements regarding File Transfer Protocol (FTP). Choose the correct statements

- A. It is used to access the world wide web (www)
- B. It is used to download data from file servers
- C. It is used for small files
- D. Files are transferred from one device to another

Choose the correct answer from the options given below:

- (A) A and B only
- (B) A and C only
- (C) B and C only
- (D) B and D only

12. How many terms are there in the series

168, 175, 182, \_\_\_\_\_, 266?

168, 175, 182, ----- , 266

- (A) 13/13
- (B) 14/14
- (C) 15/15
- (D) 16/16

13. According to Urie Bronfenbrenner 's biological model of human development, microsystem constitutes \_\_\_\_\_.

- A. Immediate family
- B. School
- C. Beliefs
- D. Customs
- E. Neighbourhood

Choose the correct from the options given below:

- (A) A, B and E only
- (B) A, B and C only
- (C) A, C and E only
- (D) C, D and E only

14. The number of characters in 8 bit ASCII code (American Standard Code for Information Interchange) is

- (A) 128
- (B) 256
- (C) 512
- (D) 64

15. United Nations Environmental Program (UNEP) was result of deliberations held during

- (A) Earth Summit at Rio de Janeiro in 1992
- (B) Human Environmental Conference at Stockholm in 1972
- (C) Kyoto Protocol 1997
- (D) Montreal Protocol 1987

16. Given below are two statements

Statement I: According to Piaget, the ability to solve conservation problems depends on having an understanding of three basic aspects of reasoning: identity, compensation, and reversibility.

Statement II: The stage of classification does not depend on a student's ability to focus on a single characteristics of objects in a set and group the objects according to that characteristic.

In light of the above statements,

choose the most appropriate answer from the options given below

- (A) Both statement I and statement II are correct
- (B) Both statement I and statement II are incorrect
- (C) Statement I is correct but statement II is incorrect
- (D) Statement I is incorrect but statement II is correct

17. Some of the types of hypothesis are as follows:

- A. Descriptive
- B. Null
- C. Confounding
- D. Intervening
- E. Explanatory (Casual)

Choose the correct answer from the options given below

- (A) A, B and D only
- (B) A, B and E only
- (C) A, B and C only
- (D) B, C and D only

18. Which of the following fractions is the smallest?

- (A)  $\frac{11}{16}$
- (B)  $\frac{29}{40}$
- (C)  $\frac{5}{8} / \frac{5}{8}$
- (D)  $\frac{65}{80}$

19. If 'All men are mortal' is given as True, then which of the following options can be validly inferred from it?

- A. 'No men is mortal' is False
- B. 'Some men are mortal' is True
- C. 'Some men are not mortal' is True
- D. 'Some men are not mortal' is False
- E. 'Some men are mortal' is False

Choose the correct answer from the options given below:

- (A) A, B and D only
- (B) A, B and C only
- (C) A, B, C and D only
- (D) B, C, D and E only

20. Which one of the following is an important characteristic of the researchers involved in qualitative study?

- (A) Enthusiasm
- (B) Non – partisan
- (C) Reflexivity
- (D) Transparency

21. Match List I with List II

List I	List II
Steps in Inference	Statements
A. Thesis (Pratijñā)	I. Because of smoke
B. Reason (Hetu)	II. Wherever, there is smoke, there is fire, as in the kitchen
C. Example (Udāharaṇa)	III. The mountain has fire
D. Application (Upanaya)	IV. The mountain also has smoke accompanied by fire, like the kitchen

Choose the correct answer from the options given below:

- (A) A – II, B – I, C – III, D – IV
- (B) A – III, B – I, C – II, D – IV
- (C) A – III, B – II, C – I, D – IV
- (D) A – III, B – IV, C – II, D – I

22. Given below are two statements

Statement I: The compound interest on ₹280 for 18 months at 10% per annum is ₹44.3

Statement II: At 5.6% rate of simple interest, a certain sum will be doubled in 15 years

In light of the above statements,  
choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

23. The number of sustainable developmental goals is

- (A) 13
- (B) 15
- (C) 17
- (D) 19

24. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: In classroom communication, teachers should acknowledge and take into account students' views.

Reason R: In a classroom, the probability of message reception can be enhanced by establishing a viewpoint.

In light of the above statements,  
choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false

- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is not the correct explanation of A

25. Which among the following are non – parametric statistics?

- A. t-test
- B. f-test
- C. Spearman's rank order correlation
- D. Mann – Whitney – Wilcoxon test
- E. Kendall coefficient of concordance

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) B, C and D only
- (C) B, D and E only
- (D) C, D and E only

26. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: According to Naiyāyikas, the fallacy of Savyabhicāra occurs when the middle term leads to different opposite conclusions.

Reason R: When the middle term is irregular, it is distributively not related to the major term.

In light of the above statements,

choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true and R is not the correct explanation of A

27. Which of the following water borne disease may be caused by virus, bacteria and protozoa?

- (A) Cholera
- (B) Diarrhea
- (C) Hepatitis
- (D) Typhoid

28. The post office protocol is

- (A) Protocol used for sending emails
- (B) Protocol used for transfer of files from one computer to another computer
- (C) Protocol used to handle email attachments
- (D) Protocol used when receiving emails from the email server

29. CBCS is

- (A) Choice Based Credit System
- (B) Credit Based Choices Scores
- (C) Criteria Based Choice System
- (D) Criteria Based Creditable Scores

30. Which region of brain is involved in our ability to learn new information, particularly if it is verbal?

- (A) Cerebrum
- (B) Hippocampus
- (C) Pons
- (D) Thalamus

31. The average of ten number is 7. If each number is multiplied by 11, then the average of the new set of numbers is:

- (A) 72
- (B) 77
- (C) 78
- (D) 82

32. Given below are two statements regarding the Router

Statement I: It enables data packets to be routed between different networks.

Statement II: It works in the Data Link Layer.

In light of the above statements,  
choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

33. Given below are two statements

Statement I: Small amount of atmospheric Nitrogen dioxide NO<sub>2</sub> is produced from polluting sources

Statement II: Most of the atmospheric NO<sub>2</sub> is produced due to photochemical reactions in the atmosphere

In light of above statements,  
choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

34. Given below are two statements

Statement I: Policy action and implementation plans require sound database systems at the regional level only

Statement II: The statistical system should ensure its impeccability with data architecture, security, quality, cleaning and integration.

In light of the above statements,  
choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

35. mooKIT platform uses \_\_\_\_\_, an open source content management system.

- (A) DRUPAL
- (B) JOOMLA
- (C) Moodle
- (D) SAKAI

36. The communication among persons working at different levels who have no direct reporting relationship is called:

- (A) Diagonal communication
- (B) Horizontal communication
- (C) Intrapersonal communication
- (D) Upward communication

37. Which of the following state has maximum installed wind power as per MNRE'S latest report?

- (A) Andhra Pradesh
- (B) Karnataka
- (C) Maharashtra
- (D) Tamil Nadu

38. Identify the fallacy committed in the argument:

Some birds are not beautiful creatures.  
All dogs are beautiful creatures.  
Therefore, no dogs are birds.

- (A) Fallacy of Exclusive Premises
- (B) Fallacy of the Illicit Process of Major Term
- (C) Fallacy of the Illicit Process of Minor Term
- (D) Fallacy of the Undistributed Middle Term

39. INFLIBNET Centre, which is an autonomous Inter – University Centre of the University Grants Commission , maintains

- (A) e – Gyankosh
- (B) e – Pathshala
- (C) Shodhganga
- (D) Swayam Prabha

40. Marshall McLuhan's name is associated with the assertion:

- (A) A message is a message
- (B) The medium is the message
- (C) The message determines the medium accurately
- (D) The message is the medium

41. \_\_\_\_\_ messages have more or less same meaning for the audience.

- (A) Abstract
- (B) Complex
- (C) Connotative
- (D) Denotative

42. Match the List I with List II



List I	List II
I/O device	Data transfer rate
A. Disk	I. 50 bps
B. Mouse	II. 1 Mbps
C. Laser print	III. 120 bps
D. Keyboard	IV. 100 Mbps

Choose the correct answer from the options given below:

- (A) A – I, B – II, C – III, D – IV
- (B) A – II, B – I, C – III, D – IV
- (C) A – IV, B – II, C – I, D – III
- (D) A – IV, B – III, C – II, D – I

43. Which one of the following is an example of a technological barrier in communication?

- (A) Complexity of ideas
- (B) Low bandwidth of internet
- (C) Personal attitude towards technology
- (D) Physical locations of communicators

44. Global Citizenship Education promotes

- (A) Common international laws for global citizenship
- (B) International public relations
- (C) Issues pertaining to citizenship across countries involving VISA
- (D) More peaceful, tolerant, inclusive, secure and sustainable societies

45. In order to transform the regulatory system of Higher Education, the NEP proposes to set up HECI (Higher Education Commission of India). Which of the following are verticals of HECI?

- A. NHERC
- B. NAS
- C. HEGC
- D. NCIVE
- E. NAC

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and E only
- (C) B, C and E only
- (D) C, D and E only

Read the passage carefully and answer the questions that follows

Leadership studies are an emergent discipline, and the concept of leadership will continue to change. Leadership lore is defined as an influenced relationship among leaders and followers who want real change and outcomes that reflect their shared purpose. Leadership involves influence. It occurs among people; those who intentionally desire significant changes, and the changes reflect purpose shared by the leaders and their followers.

Influence means that the relationship among people is not passive; however, also part of this definition is that influence is multidirectional. It does not use orders or threats to make somebody do something. The basic cultural values in America make it easiest to think leadership as something a leader does to a follower. However, leadership has effect in both directions. In most organizations, superiors influence subordinates, but subordinates also influence superiors. The people involved in the relationship want real and important changes – leadership involves creating change, not maintaining what normally happens. In addition, the changes sought are not dictated by leaders, but reflect purposes that leaders and followers share. Moreover, change toward an outcome that the leaders and follower both want; a desired future or shared purpose that motivates them toward this more preferable outcome. An important aspect of leadership is influencing others to come together around a common vision. Thus, leadership involves the influence of people to bring about change toward a desirable future.

46. What variables are used for defining leadership?
- (A) Power to affect relationship and desire for change in the true sense of the team
  - (B) Power to change and control
  - (C) Power to effect and desire for mandated change
  - (D) Power to get things done quickly by influence
47. The concept of leadership discussed in this passage is
- (A) Exceptional
  - (B) Horizontal
  - (C) Individualistic
  - (D) Vertical – topdown
48. What is the main theme of the passage?
- (A) Argument about leadership
  - (B) Explanation of leadership construct
  - (C) Models of leadership
  - (D) Pros and cons of leadership
49. What should be the outcome of leadership actions?
- (A) Movement towards common vision of the leader and the followers
  - (B) Movement towards the vision of the leader
  - (C) Movement towards the vision of the majority
  - (D) Strengthening of the authority of leaders
50. "Leadership studies are an emerging discipline" means
- (A) Leadership studies are a valid field of research
  - (B) Leadership studies are an established field
  - (C) Leadership studies is an elaborate field
  - (D) Leadership studies is an evolving domain of scholarship

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	C
2	D	27	B
3	A	28	D
4	D	29	A
5	B	30	A,B,D
6	D	31	B
7	D	32	D
8	B	33	A
9	B	34	D
10	B	35	A
11	D	36	A
12	C	37	D
13	A	38	B
14	B	39	C,D
15	B	40	B
16	C	41	D
17	B	42	D
18	C	43	B
19	A	44	D
20	C	45	B
21	B	46	A
22	A	47	B
23	C	48	B
24	C	49	A
25	D	50	D



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26-11-2021 CS\_ FN

Study the given table carefully and answer the questions that follow (1-5) the following table has semester fees for four different courses in five different years.

Years	BCA	MCA	M Tech	M Phil
2016	25000	52000	60200	30000
2017	26500	53500	61400	32000
2018	27200	54200	62500	32600
2019	27600	55700	62900	33400
2020	28000	56800	63700	33900

- Which course has the lowest percentage fee increase from 2017-2018?  
(A) BCA  
(B) MCA  
(C) MPhil  
(D) MTech
- Find out the difference between total semester fees (for all courses) of 2018 and 2019  
(A) 3100  
(B) 3150  
(C) 3250  
(D) 3270
- Find out the average of difference of fees of MCA and MTech for 2016-2020  
(A) 7600  
(B) 7650  
(C) 7700  
(D) 7750
- What is the difference between the average semester fees of BCA and average semester fees of MCA during 2016- 2020?  
(A) 27200  
(B) 27365  
(C) 27400  
(D) 27580
- Which course has highest percentage fee increase from 2019 to 2020?  
(A) BCA  
(B) MCA  
(C) MPhil  
(D) MTech
- Match list I with List II

List I MOOC Platform	List II (Developer)
A. Coursera	I. Anant Agarwal
B. Udacity	II. Salman Khan

C. Edx	III. Andrew Ng, Daphne koller
D. Khan Academy	IV. Sebastian Thrun

Choose the correct answer from the options given below:

- (A) A-I, B-II, C-III, D-IV
- (B) A-II, B-III, C-IV, D-I
- (C) A-iii, B-IV, C-I, D-II
- (D) A-IV, B-I, C-II, D-III

7. Following are some statements regarding most of the web browsers.

Choose the correct statements.

- (a) They have a home page
- (b) They do not have the ability to store users' favourite pages
- (c) They have hyperlinks to allow users to navigate
- (d) They do not keep a history of websites visited by the users

Choose the correct answer from the options given below:

- (A) a and b only
- (B) a and c only
- (C) a and d only
- (D) b and d only

8. Match List I with List II

List I	List II
A. Taxila	I. Tantrik teachings
B. Ujjain	II. Dvaita school of thought
C. Vikramshila	III. Medicine
D. Manyakheta	IV. Astronomy

Choose the correct answer from the options given below:

- (A) A-I, B-IV, C-III, D-II
- (B) A-II, B-III, C-IV, D-I
- (C) A-III, B-IV, C-I, D-II
- (D) A-IV, B-III, C-II, D-I

9. Which of the following states has maximum wind power potential in India as per MVRE's latest report?

- (A) Gujarat
- (B) Karnataka
- (C) Rajasthan
- (D) Tamil Nadu

10. The National Repository of Open Educational Resources is managed by

- (A) Central Institute of Educational Technology, NCERT
- (B) Indian Institute of Technology, Delhi
- (C) Indira Gandhi National Open University
- (D) University Grants Commission

11. Identify the fallacy committed in the argument:  
Since no tragic actors are idiots and some comedians are not idiots, so some comedians are not tragic actors.
- (A) Existential Fallacy
  - (B) Fallacy of Exclusive Premises
  - (C) Fallacy of the Illicit Process of Major Term
  - (D) Fallacy of the Illicit Process of Minor Term

12. Which of the following statement(s) do NOT hold true with respect to the Vocational Education as per NPE-2020?
- (a) B. Voc degrees introduced in 2013 will be discontinued
  - (b) Lok Vidya courses will replace existing vocational courses
  - (c) Focus areas for vocational education will be chosen on skills gap analysis without mapping local opportunities
  - (d) National Committee for integration of Vocational Education will be constituted
  - (e) Vocational education will be integrated into all schools and higher education institutions in a phased manner over the next decade

Choose the correct answer from the options given below:

- (A) a, b and c only
  - (B) a, c and d only
  - (C) b, c and d only
  - (D) c, d and e only
13. Given below are two statements  
Statement I: The ability to form and use symbols (words, gestures, signs, images, and so on) are accomplished in the preoperational period.  
Statement II: According to Piaget, preoperational children do not have a tendency to be egocentric.  
In light of the above statements, choose the most appropriate answer from the options given below
- (A) Both Statement I and Statement II are correct
  - (B) Both Statement I and Statement II are incorrect
  - (C) Statement I is correct but Statement II is incorrect
  - (D) Statement I is incorrect but Statement II is correct

14. Given below are two statements  
Statement I: The MAC address identifies which device is connected at a given IP address  
Statement II: MAC addresses are unique to each device  
In light of the above statements, choose the correct answer from the options given below
- (A) Both Statement I and Statement II are false
  - (B) Both Statement I and Statement II are true
  - (C) Statement I is false but Statement II is true
  - (D) Statement I is true but Statement II is false

15. A general code of conduct circulated among the employees of an institution is an example of:
- (A) Downward communication

- (B) Horizontal communication
- (C) Lateral communication
- (D) Upward communication

16. The average of ten numbers is 11. If each number is multiplied by 7, then the average of the new set of numbers is:
- (A) 110
  - (B) 70
  - (C) 76
  - (D) 77
17. What is a blog?
- (A) Internet
  - (B) Online journal
  - (C) Personal website in the form of a journal
  - (D) Search engine
18. Find the next two terms in the series.
- A, D, H, M, \_\_, \_\_
- (A) Q, X
  - (B) R, Y
  - (C) S, Z
  - (D) T, A
19. The web portal of Swayam Prabha is maintained by
- (A) Doordarshan
  - (B) Google India office
  - (C) Indian Institute of Technology, Kharagpur
  - (D) INFLIBNET centre
20. Which one of the following fractions is the largest?
- (A)  $\frac{11}{16}$
  - (B)  $\frac{31}{40}$
  - (C)  $\frac{5}{8}$
  - (D)  $\frac{67}{80}$
21. In communication, entropy refers to
- (A) Defensive speech
  - (B) Oratory
  - (C) Predictable message
  - (D) Unpredictable message
22. NSQF will be aligned with International Standard Classification of Occupations maintained by
- (A) ILO
  - (B) Ministry of Skill Development
  - (C) NQFVE
  - (D) UNESCO



23. Article 48A of the Indian Constitution directs the states to ensure protection and improvement of  
(A) Businesses  
(B) Education  
(C) Environment  
(D) Mineral resources
24. Which of the following are the stages of meta analysis?  
(a) Understand the literature  
(b) Conduct new studies to fill the gap  
(c) Develop inclusion and exclusion criteria of the study  
(d) Locating primary studies  
(e) Identify secondary data  
Choose the correct answer from the options given below:  
  
(A) a, b and d only  
(B) a, c and d only  
(C) b, c and d only  
(D) b, d and e only
25. Given below are two statements  
Statement I: The National Knowledge Commission recommended opening 500 universities to enable India to attain a Gross Enrolment Ratio of at least 20 % by 2015  
Statement II: The need to establish an Independent Regulatory Authority for Higher Education (IRAHE) was recommended by the National Knowledge Commission  
In light of the above statements, choose the most appropriate answer from the options given below  
  
(A) Both Statement I and Statement II are correct  
(B) Both Statement I and Statement II are incorrect  
(C) Statement I is correct but Statement II is incorrect  
(D) Statement I is incorrect but Statement II is correct
26. Given below are two statements  
Statement I: According to Nyāya, universals are eternal entities which are distinct from, but inhere in many individuals  
Statement II: The universal is the basis of the notion of sameness that we have with regard to all the individuals of a certain class  
In light of the above statements, choose the correct answer from the options given below  
  
(A) Both Statement I and Statement II are false  
(B) Both Statement I and Statement II are true  
(C) Statement I is false but Statement II is true  
(D) Statement I is true but Statement II is false
27. Which one of the following statements is true with reference to Sāmānyatodrṣṭā inference?  
(A) The middle term is related to the major term as an effect  
(B) The middle term is related to the major term both as a cause and an effect  
(C) The middle term is related to the major term neither as a cause nor as an effect  
(D) The middle term is related to the major term as a cause

28. Which one of the following Millenium Development Goals is about ensuring Environmental Sustainability?  
(A) Goal-1  
(B) Goal-3  
(C) Goal-5  
(D) Goal-7
29. If a researcher has to test a hypothesis whether the difference between the means of two groups are significant, s/he will use:  
(A) Chi-square test  
(B) Correlation coefficient  
(C) Sign-test  
(D) Student's t-test
30. Which of the following statements correctly apply to deductive arguments?  
(a)Deductive arguments are either valid or invalid  
(b)There must be a necessary relation between the premises and the conclusion  
(c)Adding new premises improves the validity  
(d)False premises may lead to a true conclusion  
Choose the correct answer from the options given below:  
  
(A) a, b and d only  
(B) a, b and c only  
(C) a, c and d only  
(D) b, c and d only
31. "No one has been able to prove the existance of extrasensory perception. We must there fore conclude that extrasensory perception is a myth". Which of the following fallacies is committed in this argument?  
(A) Appeal to ignorance  
(B) Appeal to unqualified authority  
(C) Red herring  
(D) Straw man
32. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R  
Assertion A: Schistosomiasis is a polluted water borne disease  
Reason R: Schistosomiasis is mainly caused due to the presence of sulphate in water  
In light of the above statements, choose the correct answer from the options given below  
  
(A) A is false but R is true  
(B) A is true but R is false  
(C) Both A and R are true and R is the correct explanation of A  
(D) Both A and R are true but R is NOT the correct explanation of A
33. Given below are two statements  
Statement I: Parametric statistics are more powerful than non-parametric statistics  
Statement II: Parametric statistics are assumption free statistics  
In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

34. SARTHAQ is

- (A) Government of India initiative to provide psychological support for students and teachers for mental health and emotional well being
- (B) A training programme for teachers launched by the Government of India
- (C) An organization for supporting the differently abled children
- (D) Implementation plan for NEP-2020

35. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Teachers should accept students as they are and with whatever cognitive level they have.

Reason R: Moralizing, being judgemental, exposing ignorance are barriers to successful communication.

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

36. The ages of Swati and Manisha are in the ratio of 5:6 and the sum of their ages is 55 years. What will be the ratio of their ages after 5 years?

- (A) 5:6
- (B) 6:5
- (C) 6:7
- (D) 7:6

37. Given below are two statements

Statement I: A vehicle's speed of 30.6 km/hr is the same as 5.8 m/s.

Statement II: The speed of a bus is 72 km/hr. The distance covered by the bus in 10 seconds is 100 meter.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

38. Keeping quiet because of fear of punishment in communication is an \_\_\_\_\_ barrier.

- (A) Incentive
- (B) Individual
- (C) Institutional
- (D) Interactional

39. Which one of the following is a type of malware embedded in a program on a computer that will set off a malicious function when certain conditions are met?
- (A) Logic bomb  
(B) Spyware  
(C) Trojan  
(D) Worm

40. Which among the following methods is commonly used in anthropological research?
- (A) Case study method  
(B) Ethnographic method  
(C) Life history method  
(D) Survey method

41. The air pollutant NO<sub>x</sub> is a combination of
- (A) Nitrogen dioxide and Nitric oxide  
(B) Nitrogen pentoxide and Nitrogen dioxide  
(C) Nitrous oxide and Nitric oxide  
(D) Nitrous oxide and Nitrogen dioxide

42. Given below are two statements

Statement I: Exploratory studies mainly aim at developing hypotheses or questions for further research.

Statement II: The goal of formal study is to test the hypotheses or answer the questions posed.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false  
(B) Both Statement I and Statement II are true  
(C) Statement I is false but Statement II is true  
(D) Statement I is true but Statement II is false

43. Match List I with List II

List I Types of Memory	List II Fabrication Method
(a) Dynamic Random Access Memory (DRAM)	(I) Flip-flops
(b) Static Random Access Memory (SRAM)	(II) Floating gate transistors and capacitors
(c) Programmable Read Only Memory (PROM)	(III) Transistors and capacitors
(d) Erasable Programmable Read Only Memory (EPROM)	(IV) Matrix of fuses

Choose the correct answer from the options given below:

- (A) (a) - II, (b) - I, (c) - III, (d) - IV  
(B) (a) - III, (b) - I, (c) - IV, (d) - II  
(C) (a) - III, (b) - IV, (c) - I, (d) - II  
(D) (a) - IV, (b) - II, (c) - I, (d) - III

44. Which memory is used as part of the processor?
- (A) Hard disk

- (B) RAM
- (C) Registers
- (D) ROM

45. SWAYAM platform was developed by
- (a) MHRD (now Ministry of Education), Government of India
  - (b) Google
  - (c) Microsoft
  - (d) IIT, Delhi
  - (e) Adobe Inc.

Choose the correct answer from the options given below:

- (A) (a) and (b) only
- (B) (a) and (c) only
- (C) (b) and (d) only
- (D) (d) and E only

Read the passage carefully and answer the questions that follows

Assessment is central to almost all forms of education around the world, and in recent years, a wider variety of assessment has tended to be used. One such form of this change is the use of peer and self-assessment. Self-assessment can be defined as "the ability to critically assess one's own work" (Brew, 1999) and peer assessment as "making judgments about, or commenting upon, each other's work". As with all assessment methods, both have their own strengths and weaknesses. It can be argued that peer and self-assessment with careful initiation and moderation are effective methods of assessment. However, this brief note will argue that in the high stakes environments of most educational settings, these methods are inappropriate, as the making is unreliable.

Peer and self-assessment have become increasingly common as methods of assessment, particularly in further and higher education. They are used as methods to reduce the marking loads of teachers and it is claimed, to enhance group work and the critical thinking skills of students. It is also claimed that if marking criteria are discussed and agreed at the start, students' marking does not differ significantly from teachers. In studies where the assessment of different teachers is compared, and also in studies where teacher's and peer's and or self-assessments are compared, it has generally been found that, provided criteria are discussed and agreed in advance, marks tend to be similar. Thus, it could be argued that with the right initial training, there is no difference between work being marked by a teacher or a student.

46. What benefits accrue from self-assessment and peer-assessment of students?
- (A) Ability to criticise other's work
  - (B) Enhancement of group work and critical thinking of students
  - (C) Promotes uniform assessment
  - (D) These methods do not require marking
47. "Students' marking does not differ significantly from teachers", means:
- (A) Marks do not differ peripherally
  - (B) Marks may or may not differ
  - (C) Marks that are almost similar

(D) Marks that differ radically from teachers

48. What argument the author desires to make? (Cancelled Question)

- (A) Assessment is central to education
- (B) Peer and self-assessments are inappropriate in high-stake examinations
- (C) Peer assessment is common in higher education
- (D) Self-assessment and peer-assessment are innovative assessment practices

49. What is the focus of this text?

- (A) Assessment and Education
- (B) Assessment in general
- (C) Peer and Self-assessment
- (D) Peer assessment

50. Which one of the following captures the meaning of "Assessment is central to almost all forms of education"

- (A) Assessment education is key to education in all forms
- (B) Assessment is education in all forms
- (C) Assessment is peripheral to education in all forms
- (D) Assessment is pivotal to education in all forms

Aaifer

### ANSWER KEY

Q No.	Ans	Q No.	Ans
1	B	26	B
2	A	27	C
3	C	28	D
4	D	29	D
5	B	30	A
6	C	31	A
7	B	32	B
8	C	33	D
9	A	34	D
10	A	35	C
11	B	36	C
12	A	37	A
13	C	38	B
14	B	39	A
15	A	40	B
16	D	41	A
17	C	42	B
18	C	43	B
19	D	44	C
20	D	45	A
21	D	46	B
22	A	47	C
23	C	48	-----
24	B	49	C
25	D	50	D





Believe you can  
and you're halfway there  
**KEEP GOING**



## 24-11-2021 ECO\_ FN

Study the given table carefully and answer the questions that follow.

Number (N) of candidates (in lakhs) appearing for a University Entrance examination from four different states (A, B, C, D) and the percentage (P) of candidates clearing the same over the years are provided in the table below

State	A		B		C		D	
Year	N	P(%)	N	P(%)	N	P(%)	N	P(%)
2016	2.31	32	1.64	42	2.60	46	3.3	29
2017	2.02	44	1.72	41	2.45	36	3.1	32
2018	1.98	39	2.02	37	2.20	33	2.9	31
2019	1.85	28	2.10	43	2.50	42	2.7	34
2020	2.20	33	1.90	46	2.55	30	3.0	35

- Find out the difference between the total number of students who qualified in 2017 and the total number of students who qualified in 2018 (from all states):  
 (A) 31750  
 (B) 31880  
 (C) 32220  
 (D) 32340
- Find out the average number of students who qualified in 2020 (from all states).  
 (A) 84550  
 (B) 84580  
 (C) 85375  
 (D) 86770
- Find out the average number of non-qualified candidates in 2019 (from all states).  
 (A) 135320  
 (B) 137270  
 (C) 139870  
 (D) 144025
- Find out the total number of students who have cleared the entrance exam from 2016 to 2020 in State A  
 (A) 355460  
 (B) 358660  
 (C) 360890  
 (D) 364420

5. In which year did the highest number of candidates clear the entrance exam from State B?
- (A) 2016  
(B) 2018  
(C) 2019  
(D) 2020
6. Which of the following types of power plants provide electricity consistently running 24 hrs per day, 7 days a week?
- (A) Geothermal  
(B) Hydro  
(C) Solar  
(D) Wind
7. In India, according to Niti Ayog's SDG Index (2019-2020), which is the best performing state on SDG-9 (Industry, Innovation and Infrastructure)
- (A) Gujrat  
(B) Karnataka  
(C) Kerala  
(D) Telangana

8. Match List I with List II

List I	List II
A. Lay down standards of legal education	I. NCTE
B. Maintaining the quality of technical education	II. AICTE
C. Maintenance of standards in teacher education	III. NMC
D. Access to quality and affordable medical education	IV. BCI

- (A) A -I , B -II , C -IV , D -III  
(B) A -II , B -III , C -IV , D -I  
(C) A -III , B -IV , C -I , D -II  
(D) A -IV , B -II , C -I , D -III
9. Given below are two statements
- Statement I: A variable measured at the nominal level can be used in higherlevel statistics if it is converted into another form.
- Statement II: The result of the conversion process is called dummy variable.

In light of the above statements, choose the *correct* answer from the options given below

- (A) Both Statement I and Statement II are false

- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

10. The middle term of the inference is related to the major term neither as a cause nor as an effect but because they are uniformly related to each other in our experience, is known as

- (A) Pakshdharmata
- (B) Purvavat
- (C) Samanyatodrshta
- (D) Sheshavat

11. What is Ethernet?

- (A) A collision-detection protocol
- (B) A protocol used by many wired LAN's
- (C) A protocol used for address translation
- (D) A security protocol

12. Match List I with List II

List I	List II
A. System Software	I. Library Management System
B. Application Software	II. Firewall
C. Security Software	III. Compiler
D. Embedded Software	IV. Automatic fridge

Choose the correct answer from the options given below:

- (A) A -I , B -III , C -IV , D -II
- (B) A -II , B -IV , C -I , D -III
- (C) A -III , B -I , C -II , D -IV
- (D) A -III , B -IV , C -I , D -II

13. The dynamics of classroom interaction can be effectively managed through

- (A) Interpreting perceived meanings
- (B) Language complexity
- (C) Repetitive symbolism
- (D) Verbosity

14. Which of the following are myths about communication?

- A. Good communicators are born, not made
- B. Stage fright is not a communication apprehension

- C. Communication skills have nothing to do with relationships
- D. Communication has its own barriers
- E. Practice leads to the right habits of communication

Choose the *correct* answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and D only
- (D) C, D and E only

15. Which of the following statements are true?

- A. Simplex data transmission is in two-directions only
- B. Half-duplex data transmission is in both directions but not at the same time
- C. Full-duplex data transmission is in both directions simultaneously
- D. Serial data transmission is when data is sent, 8 bit at a time, over a single wire
- E. Parallel data transmission is when one bit of data is sent down over a single wire

Choose the *correct* answer from the options given below:

- (A) A, B and C only
- (B) B and C only
- (C) C and D only
- (D) C, D and E only

16. What number comes next in this sequence?

6, 4, 2.5, 1.5, ?

- (A) 0.5
- (B) -0.5
- (C) 1
- (D) -1

17. The first education commission in Independent India is:

- (A) National Knowledge Commission
- (B) Secondary Education Commission
- (C) The Education Commission
- (D) University Education Commission

18. Gender Parity Index in higher education in India is: (Cancelled Question)

- (A) 0.98
- (B) 0.99
- (C) 1.1
- (D) 1

19. Pick the correct option to represent the given argument

All artists are egoists

Some artists are paupers

Therefore, some paupers are egoists

Choose the correct answer from the options given below

(A) A II - I figure

(B) A II - II figure

(C) A II - III figure

(D) A II - IV figure

20. The satellite used for the transmission and telecast of SWAYAMPRAKASH is called

(A) EDUSAT Satellite

(B) GSAT-15 Satellite

(C) GSAT-3 Satellite

(D) SP-EDU-15 Satellite

21. What is the name for the technique which uses images that are often more evocative than words, and more precise and potent in triggering a wide range of associations and thinking?

(A) Brainstorming

(B) Mind-mapping

(C) Story boarding

(D) Synectics

22. Match List I with List II

List I	List II
A. Ashrayāsiddha	I. Sound is eternal because it is visible
B. Svarupāsiddha	II. All real are momentary; sound is real; sound is momentary
C. Vyaptyasiddha	III. All objects are eternal because they are knowable
D. Anupasamhāri	IV. Sky lotus is fragrant because it belongs to the class of lotus

Choose the correct answer from the options given below:

(A) A -I , B -III , C -II , D -IV

(B) A -II , B -IV , C -I , D -III

- (C) A -III , B -II , C -IV , D -I
- (D) A -IV , B -I , C -II , D -III

23. Given below are two statements

Statement I: The number 89325324 is divisible by 66.

Statement II: The set of natural numbers is also called the set of whole numbers.

In light of the above statements, choose the *correct* answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

24. According to Robbins *et al*, the sequence of barriers to effective communication in an organisation is

- A. Language
- B. Emotions
- C. Selective perception
- D. Information load
- E. Filtering

Choose the *correct* answer from the options given below

- (A) A, B, D, E, C
- (B) B, C, D, A, E
- (C) D, A, E, C, B
- (D) E, C, D, B, A

25. Name the fallacy committed in the argument below

"All men who understand women are potentially perfect husbands.

All potentially perfect husbands are men of infinite patience.

Therefore, some men of infinite patience are men who understand women."

- (A) Exclusive premises
- (B) Existential fallacy
- (C) Illicit major
- (D) Undistributed middle

26. Which of the following are Central Universities?

- A. Dr. Babasaheb Ambedkar Open University
- B. Jamia Millia Islamia
- C. Panjab University
- D. Punjabi University

E. University of Mumbai

Choose the *correct* answer from the options given below:

- (A) A and B only
- (B) B and C only
- (C) C and D only
- (D) C and E only

27. What is the World Wide Web (www)?

- (A) Collection of webpages stored on websites
- (B) Hypertext processor
- (C) Interconnected networks
- (D) Web browser

28. How tall is a tree that is 6 meters shorter than a wall that is seven times higher than the tree?

- (A) 1 meters
- (B) 1.25 meters
- (C) 2 meters
- (D) 7 meters

29. University of the ancient period which has been declared by UNESCO as a heritage site is:

- A. Mithila
- B. Vallabhi
- C. Pushpagiri
- D. Takshashila
- E. Nalanda

Choose the *correct* answer from the options given below:

- (A) A and B only
- (B) B and C only
- (C) C and D only
- (D) D and E only

30. Identify the correct sequence of wind energy potential at 100 m above ground level in decreasing order

- A. Karnataka
- B. Andhra Pradesh
- C. Gujarat
- D. Tamil Nadu
- E. Andaman and Nicobar Islands

Choose the *correct* answer from the options given below

- (A)  $A > B > C > E > D$
- (B)  $C > A > B > D > E$
- (C)  $C > E > B > D > A$
- (D)  $D > C > A > B > E$

31. Which of the following are advantages of observation as a tool of data collection?

- A. Observation takes place only in natural settings
- B. Observation methods demand the active participation of subjects in the programme
- C. Observations are known for directness
- D. Artificiality can be minimised in observational studies
- E. Recording devices can be used in observational studies for accuracy

Choose the *correct* answer from the options given below:

- (A) A, B and C only
- (B) A, B and E only
- (C) B, C and D only
- (D) C, D and E only

32. Match List I with List II

List I	List II
A. If 'A' is True	I. 'E' is True; 'O' is True
B. If 'E' is True	II. 'O' is False; 'E' is False
C. If 'T' is False	III. 'A' is False; 'T' is False
D. If 'O' is False	IV. 'E' is False; 'T' is True

Choose the correct answer from the options given below:

- (A) A -I , B -II , C -III , D -IV
- (B) A -II , B -III , C -I , D -IV
- (C) A -III , B -I , C -II , D -IV
- (D) A -IV , B -II , C -III , D -I

33. Which of the following statements are correct?

- A. If A's speed is more than B's speed, then to travel the same distance, A will take more time than B
- B. Two speeds, 1500 m/min and 90 km/hr are equal
- C. By walking at a speed of 18 km/hr, the distance covered in 2 minutes and 30 seconds is 750 meters

Choose the correct answer from the options given below



- (A) A and B only
- (B) A and C only
- (C) B and C only
- (D) C only

34. The characteristics of a normal distribution curve are:

- A. It reflects an asymmetrical distribution
- B. It is bell-shaped
- C. It does not show standard deviations
- D. The mean, mode and median coincide at the centre of the distribution
- E. The curve is based on an infinite number of observations

Choose the *correct* answer from the options given below:

- (A) A, B and C only
- (B) B, C and D only
- (C) B, D and E only
- (D) C, D and E only

35. Match List I with List II

List I	List II
Thinking Hat System	Concepts and Ideas
A. White Hat	I. Judgement and caution-the logical negative
B. Red Hat	II. Data gathering-facts, figures, information needs and gaps
C. Black Hat	III. Provocations, alternatives and creativity-proposals
D. Green Hat	IV. Intuition and emotions

Choose the correct answer from the options given below:

- (A) A -I , B -III , C -II , D -IV
- (B) A -II , B -IV , C -I , D -III
- (C) A -III , B -II , C -IV , D -I
- (D) A -IV , B -I , C -III , D -II

36. Which of the following are in the "Six Thinking Hats System", a form of parallel thinking?

- A. Brown Hat
- B. White Hat
- C. Violet Hat
- D. Red Hat

E. Black Hat

Choose the *correct* answer from the options given below:

- (A) A, B and C only
- (B) B, C and D only
- (C) B, D and E only
- (D) C, D and E only

37. Given below are two statements

Statement I: Personal competencies determine how we manage ourselves

Statement II: Social competencies determine how we handle relationships

In light of the above statements, choose the *most appropriate* answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

38. Match List I with List II

List I	List II
Types of Design	Characteristics
A. Solomon Four Group Design	I. It is a cross-sectional design
B. Post-test only Control Group Design	II. Contains an additional set of control and experimental groups
C. One-shot Case Study	III. Omits the pre-tested groups altogether
D. Correlational Design	IV. Observation of a single group at one point of time to observe the change

Choose the correct answer from the options given below:

- (A) A -I , B -II , C -III , D -IV
- (B) A -II , B -III , C -IV , D -I
- (C) A -III , B -IV , C -I , D -II
- (D) A -IV , B -I , C -II , D -III

39. Given below are two statements

Statement I: One's perceptions and beliefs are the basis of generalisation in communication

Statement II: Generalisations of the environment develop through experiences.

In light of the above statements, choose the *correct* answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

40. An extraneous variable is also known as

- (A) Artifact
- (B) Contiguous factor
- (C) Dependent variable
- (D) Intervener

41. If the selling price of ₹ 24 results in a discount of 20% on the list price, what selling price would result in a 30% discount on list price?

- (A) 18
- (B) 20
- (C) 21
- (D) 27

42. Which of the following Green House bases were the target gases whose emission was to be covered under the first commitment period of the Kyoto protocol?

- A. SO<sub>2</sub>
- B. CO<sub>2</sub>
- C. N<sub>2</sub>O
- D. NH<sub>3</sub>
- E. CH<sub>4</sub>

Choose the *correct* answer from the options given below:

- (A) A, B and C only
- (B) A, B, C and D only
- (C) B, C and E only
- (D) B, C, D and E only

43. Given below are two statements

Statement I: DVDs use a single spiral 'track' to store data working from the centre to the edge.

Statement II: DVDs are Read-only devices

In light of the above statements, choose the *correct* answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true

(D) Statement I is true but Statement II is false

44. Match List I with List II

List I	List II
Elements of Effective Communication	Description
A. Common frame of reference	I. Communications with people of similar background
B. Congruence	II. Use of understandable language
C. Language relevance	III. Messages of common interest between encoder and decoder
D. Compatible environment	IV. Compatibility between the receiver and the sender

Choose the correct answer from the options given below:

- (A) A -I , B -II , C -III , D -IV
- (B) A -II , B -III , C -IV , D -I
- (C) A -III , B -IV , C -I , D -II
- (D) A -IV , B -III , C -II , D -I

45. In agricultural regions, groundwater can have significant concentrations of which pollutant?

- (A) Cadmium
- (B) Lead
- (C) Nitrate
- (D) Selenium

Read the given passage and answer the following questions.

Despite the fact that social security programmes in India are not responses to structural adjustment but have a long history of their own. Social expenditure in India is nevertheless particularly vulnerable to budget cuts. The social sector is a major spending area of the government, comprising poverty reduction interventions, health, education, nutrition, social assistance and social welfare. Most departments of government are in some way responsible for spending under this broad head. The sector is highly divisible, thus facilitating incremental and piecemeal reductions in real expenditure. It has a weak political constituency, dominated by technical-expert persons, which the mass of evaluative research that has historically been critical of state interventionism has further weakened. Such work has been put to uses other than those originally intended - not to reform the sector but as justification to abolish major components of it entirely. However, since 1991, social sector expenditure has not declined as much as had been anticipated. Despite, or because of, its departmental pervasiveness, it is an extremely-perhaps uncuttable-low proportion of GNP: 2.4 per

cent as compared with 6.5 percent in Malaysia, 12.2 per cent in Botswana and 15-25 per cent in OECD countries. Even though social sector expenditure is also flawed by spatial patchiness, conflicting time trends in expenditure levels and composition and patterns specific to each component of welfare, cuts have been widely resisted and certain Indian states have increased their current debt in order to protect social expenditure. There is, fortunately, and necessarily, speculative literature predicting, sometimes with illustrations drawn from elsewhere, the likely outcomes of cuts in various types of social expenditure. But it is far too early for these to be evidence of the actual impact on social welfare is a long-term project of several decades.

46. The gist of the passage is that
- (A) In actuality, diversification funds to areas other than social welfare are justifiable
  - (B) The social security system in India should be strengthened
  - (C) The social welfare system must be abandoned
  - (D) There is no evidence as to the utility of social welfare measures in India
47. The expert evaluation reports are used to
- (A) Justify banishing the social security system
  - (B) Reform the social welfare sector
  - (C) Strengthen the political constituency of social security
  - (D) Support the government spending on social sector
48. The government spending on poverty reduction programmes suffers from
- (A) Down-sized expenditure in real terms
  - (B) High demand from prospective beneficiaries
  - (C) Several social welfare programmes competing for funds
  - (D) Too many divisible allocations
49. The social sector in India is experiencing
- (A) A vast amount of speculative literature
  - (B) Change in composition and patterns of social welfare
  - (C) Increased current debt account by certain states to protect their social security measures
  - (D) Upward revision of budget allocations in a few specific areas
50. Social security programmes in India encounter the issue of
- (A) Direct implementation,
  - (B) Increased government intervention,
  - (C) Indirect implementation
  - (D) Structural rearrangement

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	D	26	
2	C	27	A
3	D	28	A
4	D	29	D
5	C	30	B
6	A	31	D
7	A,C	32	B
8	D	33	C
9	B	34	C
10	C	35	B
11	B	36	C
12	C	37	A
13	A	38	B
14	A	39	B
15	B	40	A
16	C	41	C
17	D	42	C
18	-----	43	D
19	C	44	D
20	B	45	C
21	B	46	B
22	D	47	A
23	D	48	A
24	D	49	C
25	B	50	D

Dreams don't work  
unless you do  
**KEEP GOING**



03-12-2021 EDU\_ FN

The following Table-I shows the Sales. and earnings of ABG Corporation in the last eight years from 2013-2020. and Table-II shows the percentage of Sales in four different categories in the years 2020. Based on the data in the tables. answer the questions:

Table-1: year-wise sales and earnings

Year	Sales (In Rs. Billion)	Earnings (In Rs. Million)
2013	3	500
2014	6	900
2015	8	200
2016	7	400
2017	5	700
2018	9	800
2019	8	700
2020	10	600

Table - II: Category-wise sales in the year 2020

Category	Percentage (%) of Sales
Computers	25%
TVs	20%
Smart phones	40%
Miscellaneous	15%

- For which year was the percentage (%) increase in earnings from the previous year's highest?  
(A) 2014  
(B) 2015  
(C) 2016  
(D) 2017
- but is the sum total (in 2 million) of the earnings of: WC Corporation for the period 2013-2019?  
(A) 4800  
(B) 4200  
(C) 4000  
(D) 5000
- Which of the following statements can be deduced from the data given in the Tables I and II?  
A. Sales of smartphones in the year 2020 exceeded total sales in the year 2013.  
B. Earnings for the year in which earnings were highest were more than the sales for the year in which sales were lowest.  
C. If in the year 2020. the sales of Smartphones had been 10% less, and the sale of Computers had been 10% higher. then the sales of smartphones would have been less than the sales of Computers.

Choose the correct answer from the options given below:

- (A) A Only  
(B) A and B only



- (C) A and C only  
(D) C only

4. What was the ratio of earnings to sales in 2015?  
(A) 25: 1  
(B) 1: 4  
(C) 1: 25  
(D) 1: 40
5. What is the average (in ₹ billions) of the sales of ABC Corporation for the period 2013-2020?  
(A) 25:1  
(B) 6.0  
(C) 7.0  
(D) 8.0

6. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):  
Assertion (A): Modern and ICT based teaching support requires some technical knowledge on the part of the teacher and learner.  
Reasons (R): Both teachers and learners have to be provided orientation in use of the various support tools and techniques in an intelligent way.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)  
(B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)  
(C) (A) is true but (R) is false  
(D) (A) is false but (R) is true

7. Match List I with List II

List I	List II
(A) Kyoto Protocol	(I) Clean and Affordable Energy
(B) Montreal Protocol	(II) Clean Development Mechanism
(C) Paris Agreement	(III) Nationally Determined Contribution
(D) International Solar Alliance	(IV) Phase out of chlorinated compounds

Choose the correct answer from the options given below:

- (A) A-II, B-IV, C-III, D-I  
(B) A- I, B- III, C- IV, D-II  
(C) A-II, B-IV, C- I, D- III  
(D) A-III, B-IV, C-I, D-II
8. Identify the correct sequence in decreasing order of percentage of total world's water in the following locations:  
(A) Atmosphere  
(B) Rivers and streams  
(C) Ground water

- (D) Lakes (Freshwater)
- (E) Ice caps and Glaciers

Choose the current answer from the options given below:

- (A) E, C, B, D, A
- (B) E, D, C, B, A
- (C) E, B, C, D, A
- (D) E, C, D, A, B

9. Given below are two statements:

Statement I: In norm-referenced testing of students, test data helps us determine a student's place or rank.

Statement II: In Criterion-referenced testing, the test data tells us about a student's level of prescience.

In the light of above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

10. According to NEP-20 the primary activities of the NRF will be to

- (A) Fund competitive peer reviewed grant proposals of all types across all disciplines.
- (B) Open new institutions of research and innovation.
- (C) Act as a liaison between researchers and relevant branches of government as well as industry.
- (D) Include research in curriculum at school level.

Choose the most appropriate answer from the options given below:

- (A) (A) and (B) only
- (B) (B) and (C) only
- (C) (A) and (C) only
- (D) (C) and (D) only

11. Identify from the list below the threats to internal validity of research.

- (A) Interaction of selection and independent variable (X)
- (B) Statistical regression
- (C) Interaction of pretesting and X
- (D) Differential selection of subjects
- (E) Experimental mortality

Choose the correct answer from the options given below:

- (A) B, D and E only
- (B) A, B and C Only
- (C) B, C and D Only
- (D) C, D and E only

12. As a result of Toot's Dispatch. which of the following Universities were established in 1557?  
(A) Calcutta, Bombay and Madras  
(B) Bombay, Madras and Delhi  
(C) Delhi. Bombay and Calcutta  
(D) Madras, Calcutta and Delhi
13. In describing elements of communication. a person or an event which provides verbal or non-verbal use to which someone can respond is known as,  
(A) message  
(B) Source  
(C) Channel  
(D) Communication context
14. By the year 2030. Sustainable Development Goal 7 aims at enhancing the global rate of improvement in energy efficiency by a factor of  
(A) 2  
(B) 3  
(C) 4  
(D) 5
15. which of the following is an example of qualitative research?  
(A) Experimental research  
(B) Ex post facto research  
(C) Descriptive survey research  
(D) rounded Theory research
16. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason(R):  
Assertion (A): Actual settings are the direct source of data and the researcher is the key instrument in qualitative research.  
Reasons (R): The purpose underlying qualitative researches is relatively more directed at depiction of reality rather than arriving at context free generalizations.
- In the light of the above statements, choose the most appropriate answer from the options given below:  
(A) Both (A) and (R) are true and (R) is the correct explanation of (A)  
(B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)  
(C) (A) is true but (R) is false  
(D) (A) is false but (R) is true
17. The owner of a mobile phone charges his customer 25% more than the cost price. If a customer paid 8,000/- for a mobile phone, then what was the cost price of the mobile?  
(A) Rs. 5600  
(B) Rs. 6000  
(C) Rs. 6400  
(D) Rs. 7000
18. Which of the following are the highest taxonomic categories in the cognitive, affective and psychomotor domains of learning?

- (A) Analysis
- (B) Evaluation
- (C) Awareness
- (D) Characterization
- (E) Naturalization

Choose the correct answer from the options given below:

- (A) A, B and G only
- (B) B, D and E only
- (C) B, C and D only
- (D) D and E only

19. In the letter series

B, H, R, F. ....

But is the next letter?

- (A) L
- (B) P
- (C) Z
- (D) X

20. With respect to computers. which of the following are random access storage devices?

- (A) Magnetic Tape
- (B) Hard Disk
- (C) Pen Drive
- (D) CDRONI

Choose the correct answer' from the options given Below:

- (A) A, B and C only
- (B) B, C and D only
- (C) A, C and D only
- (D) A, B and D only

21. A man travels in a car from point A to point B and covers. a distance of 120 km, During the first 40 km. the speed of his car is 50 km/hr. and for' the rest of journey the speed of his car is 60 km/hr. what is the average speed of his car front point 4 to point B?

- (A) 55km/hr.
- (B) 54.25 km/hr.
- (C) 56.25 km/hr.
- (D) 58.25 km/hr.

22. Which of the following options are true regarding inference with reference classical Indian system of logic?

- (A) It is deductive
- (B) It is inductive
- (C) It has to be formally valid
- (D) It has to be materially true

Choose the current answer from the options given below:

- (A) A, B and D only
- (B) A, C and D only

- (C) A, B and C only
- (D) A, B, C and D only

23. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): Agenda building is a collective communicator process in which media, government and the citizenry reciprocally influence one another.

Reasons (R): Agenda building presumes cognitive effects and inactive audience with less societal-level effects.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

24. When a computer is switched on, the BIOS is loaded from :

- (A) Hard Disk
- (B) RAM
- (C) ROM
- (D) CD-ROM

25. Feedback rejects the reactions of the audience when:

- (A) One knows the effects of communication.
- (B) One knows the quality of content of the message.
- (C) One knows the future prospect of the object of communication.
- (D) One knows the financial implications of the communication.

Choose the most appropriate answer from the options given below:

- (A) A, B, D only
- (B) A, C, D only
- (C) B, D, C only
- (D) A, B, C only

26. Given below are two statements:

One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): The Naiyayikas did not give separate treatment of the inductive methods, as the western logicians have done.

Reasons (R): According to Nyāya school universal propositions are obtained from perception itself by one of the forms of extra-ordinary perception.

In the light of the above statements, choose the correct answer from the options given below.

- (A) Both (A) and (R) are true and (R) is the correct explanation of A
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

27. Which of the following level of teaching lays stress on critical sifting of ideas at the highest cognitive level?

- (A) Memory level
- (B) Understanding level
- (C) Reflective level
- (D) Autonomous development level

28. Identify the correct order of the following computer storage capacities ranked from largest to smallest capacity.

- (A) 100 Gbytes
- (B) 10 000 000 000 Bytes
- (C) 1 Bytes
- (D) 1 000000 Bytes

Choose the correct answer from the options given below:

- (A) C, A, D, B
- (B) C, A, B, D
- (C) A, C, D, B
- (D) A, C, B, D

29. According to NEP-20 secondary Education Comprises of classes

- (A) VIII - X
- (B) X - XII
- (C) IX - X
- (D) IX - XI

30. The collection of all the objects to which a term may correctly be applied is called

- A. The intension of that term
- B. Connotation of that term
- C. The extension of that term
- D. Denotation of that term

Choose the correct answer from the options given below:

- (A) A and B only
- (B) B and C only
- (C) A and D only
- (D) C and D only

31. Choose the correct answer from the options given below:

List I	List II
Helping behavior of effective teaching	Description
(A) Using student ideas of contributions	I. Warm and nurturing relationship with learners
(B) Structuring	II. Teacher statements to encourage students to elaborate on an answer

(C) Probing	III. Teacher comments for the purpose of organizing what is to come
(D) Teacher affect	IV. Taking a student's response and repeating or applying it

- (A) A-IV, B-III, C-II, D-I  
 (B) A-I, B-II, C-III, D-IV  
 (C) A-II, B-I, C-IV, D-III  
 (D) A-III, B-IV, C-I, D-II

32. Identify from the following those values which are called 'Sattvika Values'

- (A) Compassion  
 (B) Jealousy  
 (C) Respect  
 (D) Falsehood

Choose the most appropriate answer from the options given below:

- (A) A and B only  
 (B) C and D only  
 (C) B and C only  
 (D) A and C only

33. Match List I with List II

List I	List II
Research Steps	Characteristic
A. Research problem definition	I. Appropriateness of techniques and their application
B. Formulation of research hypothesis	II. Development of a conceptual framework which is in accord with hypothesis of research
C. Design of research	III. Defining the variables to be related in unambiguous terms
D. Data Analysis	IV. Academic and social value of the research question to be weighed

Choose the correct answer from the options given below:

- (A) A-III, B-IV, C-I, D-II  
 (B) A-IV, B-III, C-II, D-I  
 (C) A-I, B-II, C-III, D-IV  
 (D) A-II, B-I, C-IV, D-III

34. What will be the resultant of two noise levels of 81 dB and 90 dB generated by two independent sources?

- (A) -96dB  
 (B) -98 dB  
 (C) -91 dB  
 (D) -118 dB

35. "The Daily News carried an article this morning about some local teenagers who were arrested on charges of drug possession. Teenagers these days are nothing but a bunch of junkies". Which fallacy is committed in the above statement?

- (A) Red Herring
- (B) Strawman
- (C) Argument against the person (ad hominem)
- (D) Hasty Generalizing

36. In the series

1, 3, 6, 10, ..... What is the next term?

- (A) 12
- (B) 15
- (C) 18
- (D) 20

37. Given below are two statements:

Statement I: Search Engines are websites that help a user to search for information on WWW.

Statement II: For any search term, Search Engines provide the exact same results to all the users.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

38. The power which comes through connectedness of one's words matching one's feelings, body and facial expression in communication process is known as:

- (A) Conformity
- (B) Congruence
- (C) Collaboration
- (D) Control

39. Given below are two statements:

Statement I: Sesavata is the inference of what remains (seSa) by elimination of the irrelevant

Statement II: Sesavata inference corresponds to the method of residues in western inductive logic.

In the light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true



40. Given the relationship between variables Y and X:  $Y = X^2$ : if X changes by 6% what is the percentage change in Y?
- (A) ~36%  
(B) ~12%  
(C) ~8%  
(D) ~6%

41. Given below are two statements:

Statement I: Solar flat plat collectors essentially work on the principle of Green House Effect.  
Statement II: Black absorber plat radiates infrared radiations.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true  
(B) Both Statement I and Statement II are false  
(C) Statement I is true but Statement II is false  
(D) Statement I is false but Statement II is true
42. Prakrit languages have similarities and differences with Sanskrit in many ways,

Prakrit languages when formalized for literary use their variation from conventional vedic languages was

- (A) CPali  
(B) Ardhamagadhi  
(C) Apabhramsha  
(D) Hindi
43. Given below are two statements :

Statement I The art of Mass Communication is much more simple than of face to face communication or any type of communication.

Statement II : Each of us uses SS (Sight, Sound and Smell) and 2T (Touch and Taste) when we communicate with others,

In the light of the above statements, choose the most appropriate answer from the options given below :

- (A) Both Statement I and Statement II are correct  
(B) Both Statement I and Statement II are incorrect  
(C) Statement I is correct but Statement II is incorrect  
(D) Statement I is incorrect but Statement II is correct

44. Match List 1 with List II

List 1 Computer Terms	List II Description
A. Magnetic Tape	(I) Used in digital cameras photo printers and cell phones
B. Memory Card	(II) Uses laser beam technology to read or write data

C. Hard Disk	(III) Used for data archival purposes but must be accessed sequentially
D. DVD	(IV) A set of metal disks mounted on a spindle

Choose the correct answer from the options given below :

(A) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

(B) (A)-(IV), (B)-(I), (C)-(III), (D)-(I)

(C) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

(D) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)

45. Given below are two statements :

Statement I : Scientific research is systematic, controlled, empirical and critical investigation of hypothetical propositions.

Statement II : Population of research need not be defined in qualitative and quantitative researches.

In the light of the above statements, choose the correct answer from the options given below :

(A) Both Statement I and Statement II are true

(B) Both Statement I and Statement II are false

(C) Statement I is true but Statement II is false

(D) Statement I is false but Statement II is true

Read the passage carefully and answer the question that follow

The need for continuing and reinforcing value oriented curriculum at the post graduate level and level of professional studies may be considered even more important. Most of the students trained at these levels are likely to become leaders of business and industry, technocrats, leaders of thought, teachers and educationists, research workers, professionals, political leaders and social workers etc. besides playing their normal roles as citizens and family members like all other people. It appears that most of them at the time of leaving the college after 3-6 years of study, may have a poor idea of the values of freedom and human dignity, the value of food, security and health care for millions of poor and disadvantaged people, the importance of correct public policies for managing societies and solving several problems, the importance of proper human relations and personal life styles, etc. A good number of them, however are now getting opportunities to acquire modern scientific and technical knowledge of high standards particularly in some of our institutions of excellence, comparable to the best institutions in the developed countries. But the problem of inadequate access to this kind of modern knowledge for the poor and disadvantaged groups in our society constitutes a serious social and moral issue.

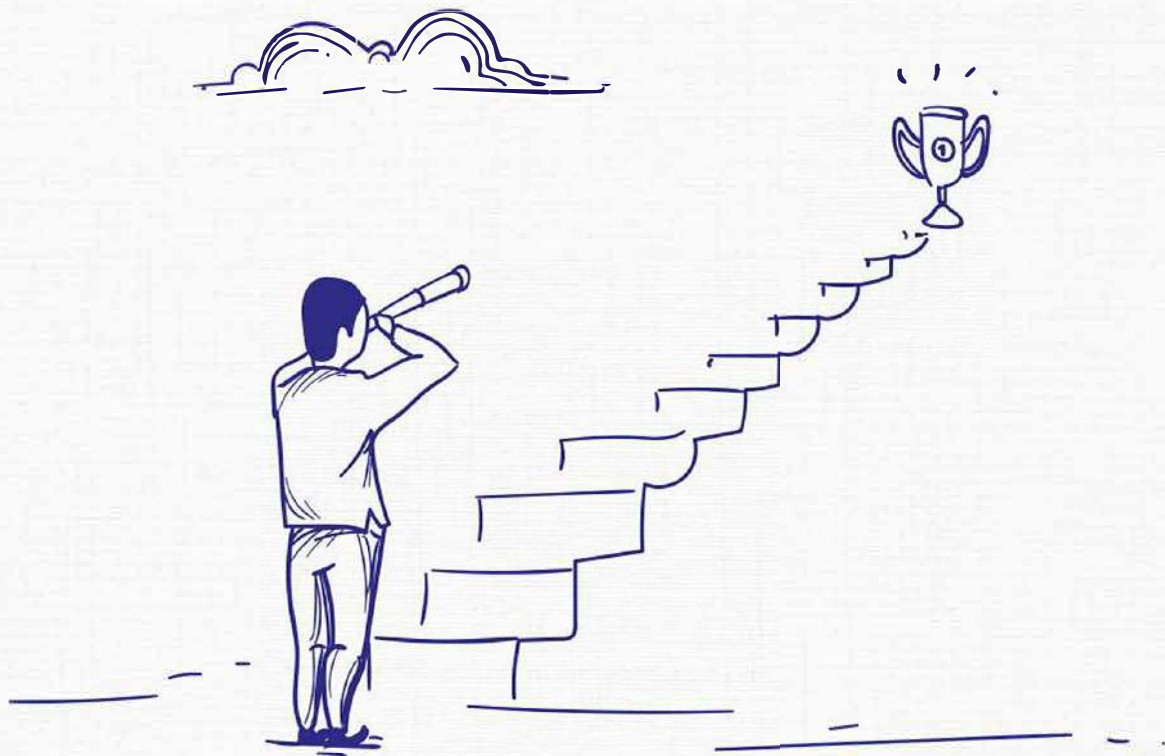
Curricular reform and reconstruction on proper lines should be the active concern of educationists and educational planners, because as pointed out in national policy document 1986, it can be a forceful tool for the cultivation of social and moral values. In our culturally plural societies education should foster universal and eternal values, oriented towards the unity

and integration of our people. Such value education should eliminate obscurantism religious fanaticism, violence superstition and fatalism.

46. The higher education system as of now emphasizes on
- (A) Utilitarian values
  - (B) Human values
  - (C) Social and Political values
  - (D) Spiritual values
47. In higher education, in the context of promoting strong value orientation, which of the following statement holds true?
- (A) Provide opportunities to students to acquire scientific knowledge of high standards.
  - (B) A Policy for development of values may be prepared.
  - (C) Offer courses related to inter disciplinary contemporary socio-economic problems.
  - (D) The universities should aim to enrich technological dimensions.
48. The most suitable Caption for the passage may be :
- (A) Enforcing values in education
  - (B) Importance of values
  - (C) Value implementation
  - (D) Value basis for tertiary education and society
49. In order to cultivate values, the higher education system should concentrate on
- (A) Plugging pedagogical deficiencies
  - (B) Integrating technology
  - (C) Integrating technology with pedagogy
  - (D) Curricular reforms
50. Value oriented curriculum at professional studies level is important
- (A) To propagate the values Further
  - (B) To have a glimpse of the issues of the poor and disadvantaged
  - (C) To balance other pedagogy, related deficiencies
  - (D) To train students as efficient resource agents

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	C	26	A
2	B	27	C
3	C	28	B
4	D	29	-----
5	C	30	D
6	A	31	A
7	A	32	D
8	D	33	B
9	A	34	B
10	B	35	D
11	A	36	B
12	A	37	C
13	B	38	B
14	A	39	A
15	D	40	B
16	A	41	A
17	C	42	C
18	B	43	D
19	D	44	A
20	C	45	C
21	C	46	A
22	D	47	C
23	C	48	D
24	C	49	D
25	D	50	D



Believing in yourself  
is the secret to success  
**NEVER QUIT**

01-12-2021 ENG\_ FN

Study the table carefully and answer the questions that follows:

In the following table, the total number of students in different courses of a college along with percentage of males and females are given.

Courses	Total number of students	Percentage of male students	Percentage of female students
B.Sc	400	65	35
B.A	650	54	46
M.Sc	280	75	25
M.A	340	55	45
PhD	180	65	35

- Find out the total number of male students in the college,  
(A) 1120  
(B) 1125  
(C) 1130  
(D) 1135
- Find out the difference between the total number of male students and total number of female students in the college.  
(A) 380  
(B) 390  
(C) 400  
(D) 410
- Find out the difference between male students in graduation (BSc + BA) and male students of post-graduation (MA + MSc).  
(A) 213  
(B) 214  
(C) 215  
(D) 216
- Find out the ratio of male students in post-graduation (MSc + MA) and male students in the PhD program.  
(A) 394  
(B) 395  
(C) 396  
(D) 397
- Find out the ratio of female students in graduation (BSc + BA) and female students in post-graduation (MSc + MA)

- (A) 435/217
- (B) 437/223
- (C) 438/219
- (D) 439/223

6. Given below are two statements regarding the address bus in a computer system

Statement I: Address bus carries signals relating to addresses between the processor and memory

Statement II: It is bi-directional

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

7. Find out the sequence of elements of effective communication as listed by Cutlip et al

- A. Promise of reward
- B. Message clarity
- C. Consistency
- D. Climate of belief
- E. Participatory context

Choose the correct answer from the options given below

- (A) A, B, D, E, C
- (B) C, D, E, A, B
- (C) D, E, A, B, C
- (D) E, A, C, D, B

8. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: To make it easier for government as well as non-government philanthropic organisations to build schools regulations on inputs should be limited to certain areas only.

Reason R: Government should provide effective, enabling and sufficient infrastructure so that all schools have access to safe and engaging school education.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is correct but R is not correct
- (B) A is not correct but R is correct
- (C) Both A and R are correct and R is the correct explanation
- (D) Both A and R are correct but R is NOT the correct explanation of A

9. The angle between hour hand and the minute hand at 3:40 pm is

- (A)  $120^\circ$
- (B)  $125^\circ$
- (C)  $130^\circ$
- (D)  $150^\circ$

10. Match List I with List II

List I	List II
ICT Applications	Example
A. Measurement applications	I. Simulating car crashes
B. Control applications	II. River Pollution
C. Modeling applications	III. Automatic oven
D. Expert Systems	IV. Medical diagnosis

Choose the correct answer from the options given below

- (A) A - I, B- II, C-IV, D - III
- (B) A - II, B - III, C-I, D-IV
- (C) A - II, B- III, C-IV, D-I
- (D) A - IV, B-I, C-II, D-III

11. Average of ten positive numbers is X. If each number is increased by 10 %, then new average increases by:

- (A) 10%
- (B) 11%
- (C) 12%
- (D) 8%

12. Which of the following are examples of violation of research ethics?

- A. Violating participant confidentiality
- B. Making recommendations beyond the scope of data collected
- C. Using an inappropriate research design
- D. Changing data to meet a desired outcome
- E. Using a quantitative method in place of a qualitative method

Choose the correct answer from the options given below:

- (A) A, B and D only
- (B) A, B, C and D only
- (C) B, C, D and E only
- (D) B, D and E only

13. A sum of money on simple interest doubles itself in 10 years. It will triple itself in

- (A) 15 Years
- (B) 20 Years
- (C) 30 Years
- (D) 32 Years

14. Identify the fallacy committed in the argument

No tragic actors are happy men.  
Some comedians are not happy men.



Therefore, some comedians are not tragic actors.

- (A) Existential fallacy
- (B) Fallacy of Exclusive Premises
- (C) Fallacy of Illicit Major
- (D) Fallacy of Undistributed

15. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R  
Assertion A: In the case study method, the researcher collects detailed information from a limited number of participants

Reason R: Findings based on case study research can be used to develop research hypotheses/questions for subsequent studies.

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

16. Given below are two statements

Statement I: The average of first twenty multiples of 9 is 92.5.

Statement II: The average of first ten multiples of 11 is 60.5.

In light of the above statements, choose the most appropriate answer from the options given below  
Options:

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

17. Modern mass communication has the characteristics of being

- A. Sporadic
- B. Continuous
- C. Based on a schedule
- D. Not much dependent on technology
- E. Dependent on the use of media

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and E only
- (D) C, D and E only

18. Given below are two statements

Statement I: The core of the teaching process is the arrangement of environments within which students can interact and study how to learn.

Statement II: A model of teaching is not a description of a learning environment.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

19. Which of the following statements is/ are true?

- A. The terms 'true' and 'false' apply to arguments.
- B. The terms 'true' and 'false' apply to statements.
- C. The terms 'valid' and 'invalid' apply to arguments.
- D. The terms 'cogent' and 'non-cogent' apply to statements.

Choose the correct answer from the options given below:

- (A) A and C only
- (B) A and D only
- (C) B and C only
- (D) C and D only

20. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R  
Assertion A: The major deficiency of pre-experimental design is that they fail to provide comparison groups.

Reason R: Equivalence can be achieved through matching and random assignment.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation A
- (D) Both A and R are true but R is NOT the correct explanation of A

21. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R  
Assertion A : Ground level concentration of ozone decreases at night

Reason R : Ultraviolet radiation photolysis the ozone into other components

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A.
- (D) Both A and R are true but R is NOT the correct explanation of A

22. As per NEP-2020, the responsibility to develop Adult Educator Framework has been given to which one of the following organisations?

- (A) MHRD
- (B) NCERT

- (C) NCTE  
(D) NIEPA

23. Identify the correct sequence of Inference from beginning to end, according to the Nyaya system.

- A. Udaharana  
B. Hetu  
C. Pratijia  
D. Nigamana  
E. Upanaya

Choose the correct answer from the options given below

- (A) B, A, C, D, E  
(B) B, A, D, C, E  
(C) C, A, B, E, D  
(D) C, B, A, E, D

24. Match List I with List II

List I	List II
Communication function/Issue	Area of Operation
A. Gatekeeping	I. Time - binding capacity
B. Persuasion	II. News
C. Entropy	III. Advertising
D. Memory	IV. Chaos in communication

Choose the correct answer from the options given below

- (A) A-I, B-II, C-III, D-IV  
(B) A-II, B-III, C-IV, D-I  
(C) A-III, B-IV, C-I, D-II  
(D) A-IV, B-I, C-II, D-III

25. Which one of the following led to the formulation of 10+2+3 system of education?

- (A) Elphinstone report  
(B) Hunter Commission  
(C) Macaulay's Minute  
(D) Wood's dispatch

26. Given below are two statements

Statement I: Aerobic digestion of sewage sludge requires lots of energy

Statement II: Aerobic digestion of sewage sludge produces huge amount of methane

In light of the above statement choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false  
(B) Both Statement I and Statement II are true  
(C) Statement I is false but Statement II is true  
(D) Statement I is true but Statement II is false

27. As students mature, the study of social issues at the community, state, national and international levels can be made available to them. Which model is designed for this purpose
- (A) Group Investigation
  - (B) Jurisprudential inquiry
  - (C) Role playing
  - (D) Structured Inquiry

28. Targets of Goal 7 of the Millenium Development Goals (MDG) are
- A. Control global warming
  - B. Universal access to modern energy
  - C. Increase global percentage of renewable energy
  - D. Mitigating air pollution
  - E. Double the improvement in energy efficiency

Choose the correct answer from the options given below:

- (A) A, B, C and D only
- (B) A, C, D and E only
- (C) B, C and D only
- (D) B, C and E only

29. Given below are two statements

Statement I: Two contrary statements cannot both be false.

Statement II: Two contrary statements cannot both be true.

In light of the above statement choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

30. 'Solar water still' is a device to

- (A) Convert saline water to potable water using solar energy
- (B) Generate electricity using solar energy
- (C) Heat water using solar
- (D) Pump water using solar energy

31. A device driver is

- (A) A port that connects a device and a system,
- (B) A software that communicates with the operating system and translates data into a format understood by the device
- (C) A software that performs disk compression
- (D) A software that performs disk defragmentation

32. Match List I with List II

List I	List II
Piaget's Stages of Cognitive Development	Approximate age
A. Sensorimotor	I. Begins about the first grade to early adolescent, around 11 years old
B. Preoperational	II. Adolescent to adulthood
C. Concrete operational	III. 0 - 2 years
D. Formal operational	IV. Begins about the time the child starts talking to about 7 years old

Choose the correct answer from the options given below:

- (A) A-I, B-II, C-III, D-IV
- (B) A-II, B-III, C- IV, D-I
- (C) III, B-IV, C-I, D-II
- (D) A-IV, B-I, C-II, D-III

33. Given below are two statements

Statement I: Experimenter effects are errors introduced during the collection or analysis of experimental data due to the behavior of the experimenter.

Statement II: Due to the presence of certain cues in the experimental setting, the participants form an interpretation of the experiment's purpose and subconsciously change their behaviour to fit that interpretation.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

34. Given below are two statements

Statement I: It is obvious that if higher education is not radically improved, our administration and technical progress, our intellectual standards and social advance will be most seriously handicapped. This is a major recommendation of the University Education Commission

Statement II: The University Grants Commission was established in accordance with the recommendation of the National Education Commission

In light of the above statements, choose the most appropriate answer from the options given below  
Options:

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

35. Convention on Biodiversity was signed during

- (A) Earth Summit at Rio de Janeiro, 1992
- (B) Human Environment Conference, Stockholm, 1972
- (C) Kyoto Protocol, 1997

(D) Montreal Protocol, 1987

36. Discourse analysis in historical research is associated with

- (A) Carr
- (B) Foucault
- (C) Hobsbawn
- (D) Skinner

37. Given below are two statements

Statement I: The primary act of communication begins when an individual decides to use a particular language symbol, susceptible to standardized interpretation, resulting in common meaning.

Statement II: Meaning refers to inner, subjective reactions to images, interpretations, emotions and feelings as given out by the words used.

In light of the above statements, choose the most appropriate answer from the options given below  
Options:

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

38. Arrange the phases for syntax of Group Investigations Model in correct sequence :

- A. Students formulate study task and organize for study
- B. Students analyse progress and process
- C. Students encounter puzzling situation
- D. Independent and Group study
- E. Students explore reactions to the situation

Choose the correct answer from the options given below

- (A) A, C, B, E, D
- (B) B, A, D, E, C
- (C) C, E, A, D, B
- (D) D, E, B, A, C

39. The 4Rs approach to conflict resolution comprises:

- A. Reading
- B. Writing
- C. Respect
- D. Reprimand
- E. Resolution

Choose the correct answer from the options given below

- (A) A, B, C and D only
- (B) A, B, C and E only
- (C) A, B, D and E only
- (D) B, C, D and E only

40. Which of the following statements about Anti-virus software are correct?
- A. Problem files/programs are quarantined and can be automatically removed
  - B. Check all files before being loaded or run
  - C. Use a database to identify potential risks
  - D. Used for data authenticity

Choose the correct answer from the options given below

- (A) A, B and C only
- (B) A, B and D only
- (C) A, C and D only
- (D) B, C and D only

Question ID:- 11048

41. Given below are two statements

Statement I: In the Nyāya system, inference is made from the particular to the particular through the Universal.

Statement II: In the Nyāya system, inference is made from the Universal to the Universal through the particular.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

42. The Gandhian method of communication is known as:

- (A) Massive
- (B) Massline
- (C) Non-technological
- (D) Personal

43. What is Anti-spyware software?

- (A) Checks files before they are loaded on a computer
- (B) It detects and removes programs installed illegally on a user's computer system
- (C) Makes the files non-readable
- (D) Manages the data traffic

44. Find the missing term in the following series

2, 9, 37, 149, ?

- (A) 298
- (B) 299
- (C) 594
- (D) 597

45. ERIC is a unit in which one of the following organizations?

- (A) NCERT
- (B) NCTE
- (C) NIEPA
- (D) NRF

Read the given passage and answer the questions that follow

There is a question whether advertising induces demand for an individual company's product more or less elastic. The evidence indicates that the advertising of brands tends to make their demands relatively inelastic for varying periods of time. The data which support this condition are found in the relatively rigid prices of many advertised articles. That brand advertising would have this effect is natural, for an objective of brand advertising is to build consumer preferences. Some consumers will stick by a brand even though its price relationship with competing brands are disturbed. Clearly, the establishment of strong brand preference has led some manufacturers to act as though these preferences made the demand for their brands relatively inelastic. Rarely have they tested the inelasticity of their brands by raising and holding up their prices when competitors have failed to follow similar procedures. Yet, numerous examples were found in which manufacturers in periods of depression held their prices rigid while prices generally and the prices of some competitors were being lowered. In all such instances price competition was found to come into play sooner or later, and either demand shifted to sellers with lower prices or a reduction in price was forced. The quickness with which price competition comes into play varies in different product fields. In the fields of proprietary remedies, the highly individualized nature of the branded products and the tendency of consumers to build strong attachments to brands has given these brands an inelastic demand over relatively long periods of time. Even in these instances, however, price competition has eventually developed.

46. The demand inelasticity of articles in terms of non-varying prices is due to

- (A) Advertising of branded products
- (B) Consumer ignorance
- (C) Differences in products
- (D) Varying time factor

47. The passage focuses upon

- (A) Impact of advertising on product pricing
- (B) Price competition and branded products
- (C) Promotion of branded products in the sellers' market
- (D) Proprietary remedies for branded articles

48. What was the post-depression development as regards product pricing ?

- (A) Increased market for branded products
- (B) Price competition, resulting in reduction
- (C) Shift in demand to consumers
- (D) Stabilization of prices

49. Why do some manufacturers make their brands of products demand inelastic? It is because of

- (A) Competitors increasing the priceline



- (B) Holding price line
- (C) Market trend
- (D) Strong consumer preference

50. Strong consumer attachment for branded products eventually led to

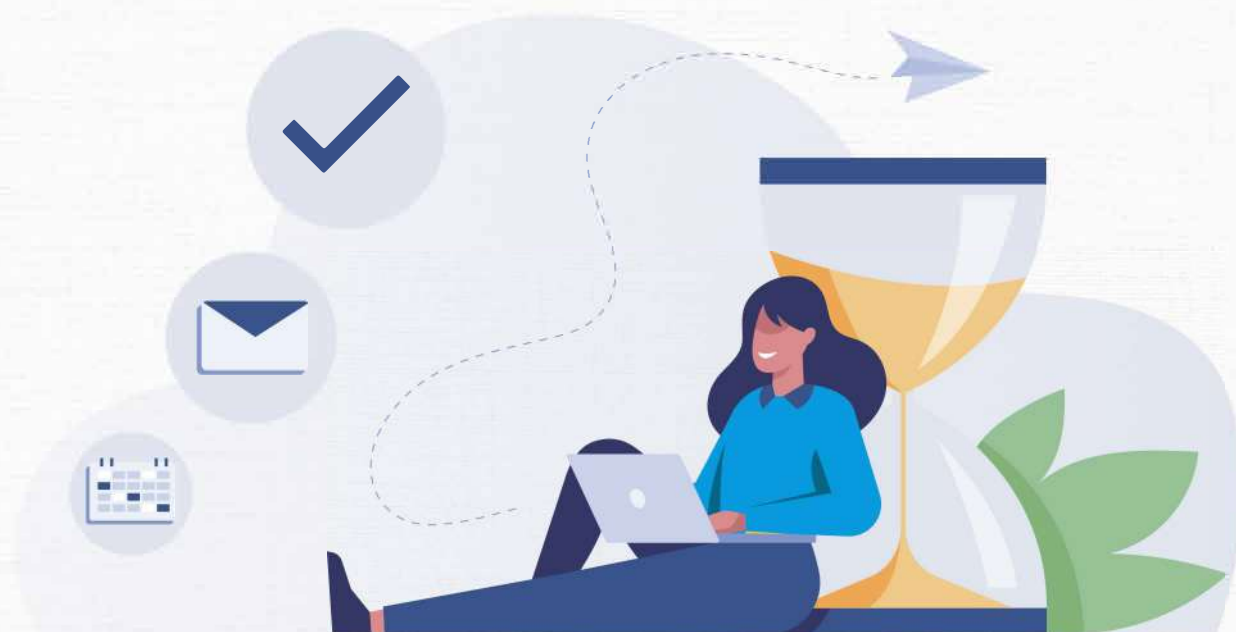
- (A) Branded products falling in line
- (B) Cartelisation of manufacturers
- (C) Lasting demand inelasticity
- (D) Uniform pricing



### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	D
2	C	27	B
3	B	28	D
4	-----	29	C
5	D	30	A
6	D	31	B
7	C	32	C
8	C	33	A
9	C	34	B
10	B	35	A
11	A	36	B
12	A	37	A
13	B	38	C
14	B	39	B
15	D	40	A
16	D	41	C
17	C	42	B
18	C	43	B
19	C	44	D
20	D	45	A
21	D	46	A
22	B	47	B
23	D	48	B
24	B	49	D
25	D	50	A

All great achievements  
require time  
**YOU CAN DO IT**



01-12-2021 ENG\_ AN

Study the given table carefully and answer the questions that follow The given table has the number of students enrolled for different courses in 5 different years along with their male and female categorization.

Year	BSc		BA		BCom	
	M	F	M	F	M	F
2016	380	220	520	405	200	80
2017	390	230	525	417	210	85
2018	395	235	535	427	212	87
2019	405	250	538	430	215	91
2020	415	275	543	438	221	97

1. Find out the ratio between the percentage increase of male students and the percentage increase of female students from 2016 to 2017.

(A)  $\frac{2.5}{3.6}$

(B)  $\frac{2.2}{3.6}$

(C)  $\frac{2.5}{3.8}$

(D)  $\frac{2.2}{3.8}$

2. Find out the average of difference between male and female students for the BA course during 2016-2020.

(A) 105.3

(B) 107.4

(C) 108.8

(D) 109.2

3. Find out the total number of male students in the college during 2018-2020.

(A) 3479

(B) 3480

(C) 3481

(D) 3482

4. Which year has the minimum percentage increase of male students in the college (including all courses)?
- (A) 2017
  - (B) 2018
  - (C) 2019
  - (D) 2020
5. Find out the ratio between female students of BA and BCom during 2016-2020.
- (A)  $\frac{2115}{442}$
  - (B)  $\frac{2115}{440}$
  - (C)  $\frac{2117}{442}$
  - (D)  $\frac{2117}{440}$
6. "Destiny of India is being shaped in her classrooms". This is stated in
- (A) Education Commission
  - (B) NKC report
  - (C) NPE -1986
  - (D) University Education Commission
7. What is the name of the concept to describe the magnitude of gains from any given change in an educational practice and thus to predict what we can hope to accomplish by using that practice?
- (A) Argumentation
  - (B) Effect size
  - (C) Empathy
  - (D) Pluralism
8. What is a disk defragmenter?
- (A) Carry out a backup procedure
  - (B) Check disk drives for empty space
  - (C) Compress data before writing it on the hard disk
  - (D) Rearrange blocks of data to store files in contiguous sectors
9. Given below are two statements
- Statement I: The Hansa Mehta committee made a recommendation that there is a need to make differentiation in curriculum on the basis of sex.

Statement II: Bhaktavalsalan committee recommended that the government and public should both act jointly, realize their responsibilities and proceed in a planned manner with regard to education of girls in future.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

10. Given below are two statements

Statement I: Methanol ( $\text{CH}_3\text{OH}$ ) also known as wood alcohol and has a much higher octane rating than gasoline.

Statement II: Methanol burns with higher flame temperature than gasoline or diesel. Thus, it produces a higher amount of  $\text{NO}_x$ .

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

11. Who is the Executive Head of the National Disaster Management Authority (NDMA)?

- (A) A member of Parliament appointed by the President
- (B) Chief of the Army Staff
- (C) President of India
- (D) Prime Minister of India

12. Match List I with List II

List I	List II
Network Addresses	Respective Layers
A. IP Address	I. Application Layer
B. MAC Address	II. Network Layer
C. Socket Address	III. Transport Layer
D. URL Address	IV. Data Link Layer

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D - IV
- (B) A - I, B - IV, C - II, D - III
- (C) A - II, B - IV, C - III, D - I

(D) A - III, B - I, C - II, D - IV

13. The objective of exploring the existing literature should be to identify which of the following issues?

- A. What is already known about this area?
- B. What concepts and theories are relevant to this area?
- C. How to get funding for the research?
- D. What are the significant controversies in this area?
- E. Are there any inconsistencies in the findings of this area?

Choose the correct answer from the options given below:

- (A) A, B, C and D only
- (B) A, B, C and E only
- (C) A, B, D and E only
- (D) B, C, D and E only

14. Given below are two statements regarding the Hard Disk Drive (HDD)

Statement I: HDD use circular platters coated in magnetic material.

Statement II: Access to data is faster than with RAM

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

15. Which one of the following is a part of the processor?

- (A) Address bus
- (B) Cache memory
- (C) Control unit
- (D) Data bus

List I	List II
Erikson's Stages of Psychological Development	Relevant Illustrations
A. Basic trust versus basic mistrust	I. Parenting/ mentoring
B. Industry versus inferiority	II. Love relationships
C. Intimacy versus isolation	III. School
D. Generativity versus stagnation	IV. Feeding

16. Match List I with List II

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D - IV
- (B) A - III, B - IV, C - I, D - II
- (C) A - IV, B - III, C - II, D - I
- (D) A - II, B - I, C - IV, D - III

17. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: A proposition is a statement about observable phenomena (concepts) that may be judged as true or false.

Reason R: When a proposition is formulated for empirical testing, it is called a hypothesis.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is correct but R is not correct
- (B) A is not correct but R is correct
- (C) Both A and R are correct and R is the correct explanation of A
- (D) Both A and R are correct but R is NOT the correct explanation of A

18. Given below are two statements(Cancelled Question)

Statement I: A two-way communication takes place when the encoding and decoding are in operation with equal frequency by two or more individuals

Statement II: The communicator and the communicate are related by the communication circuits and the success of communication depends upon the level of reciprocity between them.

In light of the above statements, choose the most appropriate answer from the options given below



- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

19. The primary treatment of wastewater involves removal of

- (A) Colloids
- (B) Microorganisms
- (C) Organic water
- (D) Solids

20. What comes next in the following sequence?

1, 2, 3, 7, 16, 65, ?

- (A) 225
- (B) 228
- (C) 287
- (D) 321

21. Which of the following are popular software (apps) used for conducting online conferences?

- A. Big Blue Button
- B. ZOOM
- C. KOHA
- D. Microsoft Teams
- E. Moodle

Choose the correct answer from the options given below:

- (A) A, B and D only
- (B) A, B and C only
- (C) A, C and E only
- (D) C, D and E only

22. Which of the following has positive radiative forcing or warming effect in the global climate?

- (A) Stratospheric Ozone
- (B) Sulphate Aerosol
- (C) Sulphur dioxide
- (D) Tropospheric Ozone

23. Match List I with List II

List I	List II
In Square of opposition	Resultant
A. If 'Some flowers are pink' is False	I. 'T' is False; 'O' is True
B. If 'No girls are birds' is True	II. 'A' is False; 'E' is True
C. If 'Some boys are not tall' is False	III. 'T' is True; 'O' is False

D. If 'All chocolates are sweet' is True	IV. 'E' is False; 'T' is true
------------------------------------------	-------------------------------

Choose the correct answer from the options given below:

- (A) A - II, B - I, C - IV, D - III
- (B) A - III, B - IV, C - II, D - I
- (C) A - IV, B - II, C - I, D - III
- (D) A-II, B - III, C - I, D - IV

24. A vendor marks all his goods at 50% above the cost price and then offers a discount of 25% on the marked prices. What is his profit on the sales?

- (A) 12.50%
- (B) 20.50%
- (C) 22.50%
- (D) 25%

25. Two trains are moving in same direction at 60 km/hr and 45 km/hr. The faster train passes a girl sitting in the slower train in 15 seconds. The length of the faster train is

- (A) 165 m
- (B) 22.5 m
- (C) 225 m
- (D) 62.5 m

26. Given below are two statements

Statement I: Behaviour theory does not concentrate on observable behaviour.

Statement II: Behaviour theory approach involves continuous inquiry.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

27. Given below are two statements

Statement I: Context of discovery involves non-rational, intuitive processes while context of justification is based on logical processes.

Statement II: The process of hypothesis generation doesn't strictly follow rigorous logical reasoning.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

28. Given below are two statements

Statement I: A culture of bacteria quadruples every hour. If a bottle with these bacteria was half full at 7 am, then at 6 am on the same day, the bottle was one-eighth full.

Statement II: The average of the first 31 natural numbers is 16.5.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

29. If the research is to be conducted on very young children or inarticulate persons, which one of the following methods will be appropriate in this situation?

- (A) Case history
- (B) Experiment
- (C) Observation
- (D) Survey

30. Identify the fallacy committed in the argument below.

Some good actors are not strong men.

All professional wrestlers are strong men.

Therefore, all professional wrestlers are good actors.

- (A) Fallacy of drawing affirmative conclusions from negative premise
- (B) Fallacy of Illicit Major
- (C) Fallacy of Illicit Minor
- (D) Fallacy of Undistributed Middle

31. Human communication involves

- A. Patterned social interactions
- B. Use of abstract meanings only
- C. Conflict-oriented actions only
- D. Neural activities of the brain
- E. Psychological activities

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and D only
- (D) C, D and E only

32. Which one of the following is not an objective of higher education?

- (A) Career Development
- (B) Improving literacy levels
- (C) Research

(D) Teaching

33. Eutrophication in a water body leads to which of the following?

- A. Bloom of algae
- B. Increase in the level of dissolved oxygen (DO)
- C. Increase in turbidity and odor of the water body
- D. Difficulty in sustaining normal aquatic life
- E. Deficiency of nutrients

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and D only
- (C) B, C and D only
- (D) C, D and E only

34. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Environmental education makes individuals aware of environmental issues, explore and analyze causes and effectiveness of the issues, and promotes environmental sustainability.

Reason R: It is very essential to think and act creatively to become technically capable and trained to approach environmental issues in a proactive manner.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is correct but R is not correct
- (B) A is not correct but R is correct
- (C) Both A and R are correct and R is the correct explanation of A
- (D) Both A and R are correct but R is NOT the correct explanation of A

35. Six years ago, the ratio of the ages of Ravi and Laxmi was 6:5. Four years hence, the ratio will be 11:10. Ravi's age at present is

- (A) 10 years
- (B) 12 years
- (C) 16 years
- (D) 18 years

36. Match List I with List II

List I	List II
Communication Components	Description
A. Medium	I. Facts
B. Channel	II. Verbal and non-verbal signs
C. Codes	III. Route by which the message travels
D. Content information	IV. Physical means to transmit the message

Choose the correct answer from the options given below:

- (A) A - I , B - II , C - III, D - IV  
 (B) A - III, B - IV, C - I, D - II  
 (C) A - IV, B - III , C - II , D - I  
 (D) A-II, B - III , C - IV, D - I

37. NSFQ organizes qualification according to series of levels of

- (A) Knowledge, Skills, Aptitude  
 (B) Knowledge, Skills, Experience  
 (C) Skills, Achievement, Aptitude  
 (D) Skills, Experience, Aptitude

38. Match List I with List II

List I	List II
Contexts	Examples
A. Context of discovery	I. From the particular to a generalisation
B. Inductive reasoning	II. Testing or verifying the hypothesis
C. Abductive reasoning	III. Hypothesis generation
D. Context of justification	IV. Inference based on some observations

Choose the correct answer from the options given below:

- (A) A - I, B - III , C - II , D - IV  
 (B) A - III, B - I , C - IV , D - II  
 (C) A - IV , B - III , C - I , D - II  
 (D) A-II, B - I, C - IV, D - III

39. Colour, as a means of communication, has meanings that mostly emanate from one's own

- (A) Choices  
 (B) Culture  
 (C) Educational background  
 (D) Social status

40. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Naiyāyikas do not accept non-apprehension (anupalabdhi) as a distinct source of knowledge (pramāṇa).

Reason R: According to Naiyāyikas, non-apprehension can be covered under inference (anumāna).

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true  
 (B) A is true but R is false  
 (C) Both A and R are true and R is the correct explanation of A  
 (D) Both A and R are true but R is NOT the correct explanation of A

41. Analogies have been used for which of the following purposes?

- A. Inductive reasoning
- B. Deductive reasoning
- C. Description
- D. Explanation

Choose the correct answer from the options given below

- (A) A, B and D only
- (B) A, B and C only
- (C) A, C and D only
- (D) B, C and D only

42. Identify the correct sequence for phases of personal growth in the non-directive interview process.

- A. Develops insight
- B. Integration
- C. Release of feelings
- D. Action
- E. New orientation

Choose the correct answer from the options given below

- (A) A, B, C, D, E
- (B) B, E, D, A, C
- (C) C, A, D, B, E
- (D) C, E, B, A, D

43. Anumana has been accepted as an independent source of valid knowledge by which of the following schools?

- A. Buddhists
- B. Naiyāyikas
- C. Cārvākās
- D. Mīmāṃsakas
- E. Advaitins

Choose the correct answer from the options given below

- (A) A and B only
- (B) A, B and C only
- (C) A, B, D and E only
- (D) B, C, D and E only

44. Which of the following statements regarding Modems are correct?

- A. It is used to convert digital data into analogue
- B. It also converts analogue data into digital data
- C. Sends the data packet to specific addresses
- D. Inspects data packets received over the internet

Choose the correct answer from the options given below

- (A) A and B only
- (B) A, B and C only
- (C) B and C only
- (D) B, C and D only

45. Identify the correct sequence of the following types of visual communication.

- A. Objects
- B. Maps
- C. Graphs
- D. Photographs
- E. Models

Choose the correct answer from the options given below

- (A) A, B, D, C, E
- (B) A, E, C, B, D
- (C) B, D, E, C, A
- (D) C, A, D, B, E

Read the given passage and answer the questions that follow

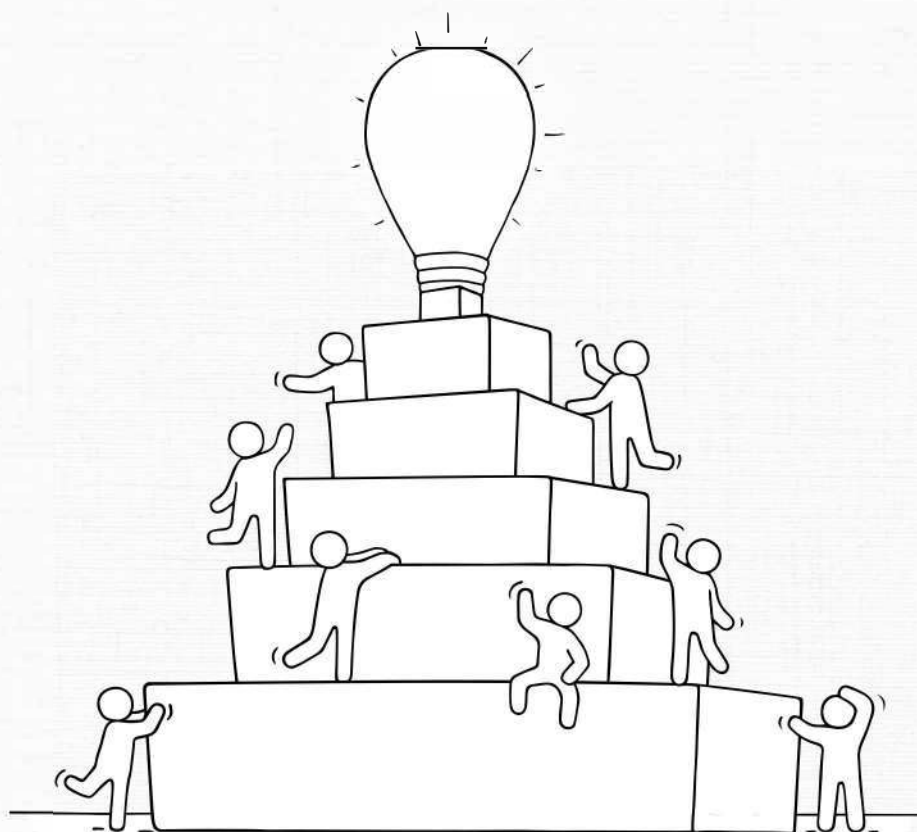
Besides being hailed as a technology which can deliver the 'global village', the Internet is also promoted as a singular medium which allows for democratized processes which were not previously possible in the era of broadcast. but what kinds of democracy are being postulated here? Traditionally, and more than ever now, democracy is heavily aligned with the nation-state. Because of this, no sense is made of the claim that the Internet enables universal participation in the democratic process. The point here is the practices of communication afforded by computer-mediated communication may able to substitute some of the functions of the mass media- for example, in the formation of pre-institutional public opinion. But these practices do not necessarily exert pressure on the institutional apparatuses of politics. Of course, the mass media themselves, as a means of electronically mediated communication, can never replace the institutional apparatuses of politics, and as found out by numerous studies, have been just as much used by politicians as they have influenced them. The internet can be classified as a global technology, which enables connections with individuals and institutions overseas just as easily as it does nationally, regionally or locally. If there is an imagined community on the Internet, it is definitely not the nation-state. State bounded kinds of citizenship cannot be considered coterminous with the kinds of citizenship which are achieved on the Internet. However, this is not to argue that a global sense of citizenship, even if it too is an 'imagined one', cannot exist. Recent protests against international financial institutions such as the World Bank were organized almost entirely through Internet media - a case of not-so-visible electronic assemblies producing very visible embodied assemblies. But even that the experience of community on the Internet is not limited to national boundaries, it is also important to consider the shape and structure of virtual communities.

46. In what way, can the internet play a role in modern society?
- (A) Being a substitute to traditional broadcast media
  - (B) By playing a supportive role to conventional media
  - (C) By shaping institutional public opinion
  - (D) By taking an active part as a political institution
47. The crux of the passage is that the Internet:
- (A) can help organize people's assemblies
  - (B) can provide segmented experience of the world
  - (C) has limited use in politics
  - (D) is an all-powerful medium
48. What is the main weakness of the Internet?
- (A) Electronic media is more powerful than the Internet
  - (B) It cannot produce a global sense of citizenship
  - (C) It cannot substitute political institutions
  - (D) Virtual citizenship is coterminous with national citizenship
49. Internet is considered as a prime medium for its
- (A) Better than the broadcast medium
  - (B) Far-reaching accessibility
  - (C) Position as a technological medium
  - (D) Promotion of a new type of democratization
50. Even now the nation-state influences
- (A) Its citizens
  - (B) Its imagined communities
  - (C) The democratic process
  - (D) The globalization concept



### ANSWER KEY

Q. No	Ans	Q.No	Ans
1	D	26	D
2	C	27	A
3	A	28	D
4	C	29	C
5	D	30	A
6	A	31	B
7	B	32	B
8	D	33	B
9	D	34	D
10	D	35	D
11	D	36	C
12	C	37	A
13	C	38	B
14	D	39	B
15	C	40	C
16	C	41	C
17	D	42	C
18	A	43	C
19	D	44	A
20	D	45	B
21	A	46	C
22	D	47	A
23	A	48	C
24	A	49	D
25	D	50	C



Big journeys  
begin with small steps  
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## 26-12-2021 HND\_ FN

Study the given table carefully and answer the question that follow

In the given table, students enrollment for five different courses in 5 different years are given.

Note: The number in the brackets give the maximum number of seats in each course.

Courses

	BTech (60)	MCA (60)	MTech (30)	MPhil (20)	Integrated MTech (30)
2016	45	52	25	16	26
2017	55	56	26	18	24
2018	48	43	21	14	25
2019	53	40	23	15	23
2020	50	46	28	13	27

- In which year, was there the highest student enrollment?  
(A) 2016  
(B) 2017  
(C) 2019  
(D) 2020
- Which year has highest number of vacant seats?  
(A) 2017  
(B) 2018  
(C) 2019  
(D) 2020
- Which course has minimum number of total vacant seats during 2016 to 2020?  
(A) B.Tech  
(B) M.Phil  
(C) M.Tech  
(D) MCA
- is the difference between average vacant seats in BTech and average vacant seats in MTech during 2016-20.  
(A) 4.1  
(B) 4.2

- (C) 4.3
- (D) 4.4

5. What is the difference between average enrollment in 2016 and average enrollment in 2017?

- (A) 3.0
- (B) 3.2
- (C) 3.3
- (D) 3.4

6. The oldest university in India was:

- (A) Mithila
- (B) Nalanda
- (C) Takshashila
- (D) Vikramshila

7. Identify the sequence of human communication skills.

- A. Public speaking
- B. Group interaction
- C. Relationship
- D. Feed forward
- E. Self - presentation

Choose the correct answer from the options given below

- (A) A, C, D, B, E
- (B) B, D, E, C, A
- (C) C, E, A, D, B
- (D) E, C, B, A, D

8. Paris agreement entered into force when the instruments of ratification were deposited by at least 55 countries which accounted for, at least

- (A) 50% of global CO<sub>2</sub> emissions
- (B) 55% of global CO<sub>2</sub> emissions
- (C) 60% of global CO<sub>2</sub> emissions
- (D) 75% of global CO<sub>2</sub> emissions

9. Given below are two statements

Statement I: In the 'before-and-after without control' design, a single test group or area is selected and the dependent variable is measured before the introduction of the treatment.

Statement II: In the 'before-and-after with control' design, two areas are selected but the dependent variable is not measured in both the areas for an identical time-period before the treatment.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

10. What is Phishing?

- (A) Checking the spelling of websites
- (B) Search automatically for an item on the internet
- (C) Sending data to a hacker
- (D) Some-one sends legitimate-looking emails to users

11. Which of the following are important in intercultural communication?

- A. Valuelessness
- B. Absence of respect
- C. Power distance
- D. Individualism
- E. Gender roles

Choose the correct answer from the options given below:

- (A) A, B and E only
- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

12. Two persons are walking in the same direction at rates 3 km/hr and 6 km/hr. A train comes running from behind and passes them in 9 and 10 seconds respectively. The speed of the train is

- (A) 22 km/hr
- (B) 33 km/hr
- (C) 35 km/hr
- (D) 44 km/hr

13. In an illustration of inference that the 'Sun moves, like other moving objects its position changes' represents

- (A) Pakshta
- (B) Pūrvavat Anumana
- (C) Sāmānyatodrṣṭa
- (D) Śeṣavat Anumana

14. Pick the incorrect statement

- (A) 'Truth' and 'Falsehood' may be predicated of propositions but never of arguments
- (B) In the case of deductive argument, the technical terms 'correct' and 'incorrect' are used
- (C) Inductive arguments are neither valid nor invalid but evaluated as better or worse
- (D) The conclusion of a deductive argument follows from its premises necessarily

15. The Fallacy committed in the argument

"All textbooks are books intended for careful study. Some reference books are books intended for careful study. Therefore, some reference books are textbooks." is

- (A) Fallacy of four Terms
- (B) Illicit Major
- (C) Illicit Minor
- (D) Undistributed Middle

16. Choice-based credit system of index graduate level includes:

- A. Core Course
- B. Elective Course
- C. Ability Enhancement Course
- D. Environment Education Course
- E. English Communication Course

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, B and E only
- (C) B, C and D only
- (D) C, D and E only

17. What number should replace the question mark?

7, 8, 9, 10, 12, 14, 16, 20, 21, 28, ?

- (A) 27
- (B) 29
- (C) 32
- (D) 36

18. Biogas has a calorific value of about

- (A) 1800 kcal per cubic meter
- (B) 2500 kcal per cubic meter
- (C) 3000 kcal per cubic meter
- (D) 5000 kcal per cubic meter

19. What is the name of the software application that facilitates building an early accessible bookmark warehouse that becomes searchable to members or the public?

- (A) Database Management System
- (B) Enterprise Resource Planning
- (C) Reference Management Tool
- (D) Social Bookmarking

20. Match List I with List II

List I	List II
Communication barriers	Examples
A. Psychological	I. Use of technical language
B. Organisational	II. Poor retention
C. Personal	III. Functional specialisation
D. Semantic	IV. Fear of challenge to authority

Choose the correct answer from the options given below:

- (A) A -I , B -II , C -III , D -IV
- (B) A -II , B -III , C -IV , D -I
- (C) A -III , B -IV , C -I , D -II
- (D) A -IV , B -I , C -II , D -III

21. Under which of the following agreements was it decided to limit the increase in global average temperature to well below 2°C?

- (A) Kyoto Protocol
- (B) Montreal Protocol
- (C) Paris Agreement
- (D) Rio Summit

22. Metacognition comprises which of the following skills?

- A. Planning
- B. Developing
- C. Monitoring
- D. Costing
- E. Evaluation

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and E only
- (C) A, D and E only
- (D) B, D and E only

23. Match List I with List II

List I	List II
A. Input device	I. Traffic light simulator
B. Output device	II. Scanner

C. Pointing Device	III. Speaker
D. Sensor Device	IV. Trackerball

- (A) A -I , B -II , C -IV , D -III  
 (B) A -II , B -III , C -IV , D -I  
 (C) A -II , B -IV , C -III , D -I  
 (D) A -III , B -I , C -IV , D -II

24. When a middle term does not go further than producing a state of mental oscillation between two opposite views, the case is of

- (A) Fallacy of Asiddha  
 (B) Fallacy of Prakaransama  
 (C) Fallacy of Savyabhichara  
 (D) Fallacy of Viruddha

25. Which of the following statements are TRUE?

- A. If A's salary is 20% more than B. then B's salary is 20% less than A.  
 B. By selling 28 pens, a man gains the selling price of 4 pens. The gain is 15%.  
 C. The average of N consecutive natural numbers starting from 1 is  $(N+1/2)$

Choose the correct answer from the options given below

- (A) A and B only  
 (B) A and C only  
 (C) B and C only  
 (D) C only

26. Match List I with List II

List I	List II
Research Design	Type of study
A. Sampling design	I. Pre-planned design for analysis
B. Statistical design	II. Structured or well thought out instruments for collection of data
C. Observational design	III. Advanced decisions about operational procedures
D. Operational design	IV. Probability sampling design

- (A) A -I , B -III , C -IV , D -II  
 (B) A -II , B -IV , C -III , D -I  
 (C) A -III , B -II , C -I , D -IV



(D) A -IV , B -I , C -II , D -III

27. Central Universities are:

- A. established by the UGC
- B. established by an act of the Parliament
- C. established by the Department of Education, Government of India
- D. funded by the Central government
- E. Funded by the 'Niti Ayog'

Choose the correct answer from the options given below:

- (A) A and D only
- (B) B and D only
- (C) B and E only
- (D) C and E only

28. Who among the following is the national coordinator for engineering courses to be launched on SWAYAM platform?

- (A) AICTE
- (B) NCERT
- (C) NPTEL
- (D) UGC

29. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Smiles and laughter should be avoided when messages are serious.

Reason R: Non-verbal cues are always contextual like verbal communication

In light of the above statements,

choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

30. X is as much younger to Y as he is older to Z. If the sum of the ages of Y and Z is 36 years. What is the age of X?

- (A) 15 Years
- (B) 16 Years
- (C) 18 Years
- (D) 20 Years

31. Match List I with List II

List I	List II
A. State with the highest number of universities	I. Sikkim
B. State with the lowest number of universities	II. Rajasthan
C. State with the highest GER in higher education	III. Bihar
D. State with the lowest GER in higher education	IV. Mizoram

- (A) A -II , B -IV , C -I , D -III  
 (B) A -II , B -IV , C -III , D -I  
 (C) A -III , B -IV , C -I , D -II  
 (D) A -II , B -III , C -IV , D -II

32. The kind of sample that is simply available to the researcher by virtue of its accessibility, is known as

- (A) Convenience sampling  
 (B) Quota sampling  
 (C) Snowball sampling  
 (D) Web sampling

33. According to the Sustainable Development Report (2020), the top-ranked country on the basis of the SDG Index is

- (A) Bhutan  
 (B) New Zealand  
 (C) Sweden  
 (D) United Kingdom

34. Given below are two statements

Statement I: Between 4 and 5, the minute hand and hour hand of a clock coincide at 20 minutes past 4.

Statement II: Between 4 and 5, the minute hand and hour hand of a clock are at a right angle at 40 minutes past 4.

In light of the above statements,  
 choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false  
 (B) Both Statement I and Statement II are true  
 (C) Statement I is false but Statement II is true  
 (D) Statement I is true but Statement II is false

35. Which one of the following waterborne diseases does not require direct contact with water but a host to spread?

- (A) Cholera
- (B) Malaria
- (C) Schistosomiasis
- (D) Trachoma

36. What are Firewalls?

- (A) Hardware or software that sits between a user's computer and an external computer
- (B) Used for address translation in the Network layer
- (C) Used for Network congestion control
- (D) Used to store the Network Interface Card

37. Match List I with List II

List I	List II
Proposition in Square of Opposition	Resultant Proposition
A. If 'A' is True	I. 'T' is false; 'O' is True
B. If 'E' is True	II. 'E' is false; 'A' is undetermined
C. If 'T' is True	III. 'E' and 'T' is undetermined
D. If 'O' is True	IV. 'E' is false; 'T' is True

- (A) A -I , B -III , C -II , D -IV
- (B) A -II , B -I , C -III , D -IV
- (C) A -III , B -II , C -I , D -IV
- (D) A -IV , B -I , C -II , D -III

38. Given below are two statements

Statement I: Reliability refers to whether a test measures what it says it measures.

Statement II: Validity refers to whether a test consistently yields the same or similar scores.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

39. Which of the following statements are correct?

- A. A WLAN is a wide area network
- B. A hub sends an incoming data packet to the correct device on a network
- C. An IP address is assigned to a device at the manufacturing stage

- D. A network Interface card is needed to allow a device to connect to a network
- E. Routers inspect data packets received over the internet

Choose the correct answer from the options given below

- (A) A and B only
- (B) B and E only
- (C) B, C and D only
- (D) D and E only

40. According to communication research findings, some amount of gossip is necessary for

- (A) Extending communication range
- (B) Prevention of distortion
- (C) Pro-social motivation
- (D) Relocation of emotional affiliations

41. Match List I with List II

List I	List II
Learning Strategy	Action taken
A. Planning and focusing attention	I. Creating example
B. Organising and remembering	II. Self-questioning and self-testing
C. Comprehension	III. Setting goal and timetables
D. Cognitive monitoring	IV. Using mnemonics, imagery

Choose the correct answer from the options given below:

- (A) A -I , B -II , C -III , D -IV
- (B) A -II , B -III , C -IV , D -I
- (C) A -III , B -IV , C -I , D -II
- (D) A -IV , B -I , C -II , D -III

42. Given below are two statements

Statement I: If we are interested in the worldview of members of a certain social group, a qualitative research strategy that is sensitive to how participants interpret their social world may be preferable.

Statement II: If a researcher is interested in a topic on which little or no research has been done in the past, quantitative research may be easy to employ because there is little prior literature from which to draw leads.

In light of the above statements,

choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

43. Which among the following is the names for validity whereby researcher uses a future criterion measure, rather than a contemporary one?

- (A) Concurrent validity
- (B) Construct validity
- (C) Convergent validity
- (D) Predictive validity

44. Gross Enrolment Ratio (GER) in higher education calculated as:

- (A)  $\frac{\text{Number of enrolments in higher education}}{\text{Total population in the age group of 18-23}} \times 100$
- (B)  $\frac{\text{Number of enrolments in higher education}}{\text{Total population in the age group of 18-23}}$
- (C)  $\frac{\text{Number of enrolments in higher education in the age group 18-23}}{\text{Total population in the age group of 18-23}} \times 100$
- (D)  $\frac{\text{Number of enrolments in higher education}}{\text{Total population in the age group of 18-23}} \times 100$

45. Given below are two statements

Statement I: If the sensor data is outside the acceptable range, then the microprocessor/computer will take action.

Statement II: Sensors in the control application only send data to the microprocessor/computer when something happens.

In light of the above statements,

choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

Read the given passage carefully and answer the following question.

Two factors have mainly caused the present disastrous conditions and events. One is the change in rainfall pattern resulting from climate change. The monsoon behaviour has changed, and rainfall that used to happen over many days occur in a day or even in hours, making it difficult for the soil in the plains and the hills and for many manmade structures to withstand the impact. The high altitude areas along the Western Ghats have been especially vulnerable, because of encroachments, destruction of forests, quarrying and mining, formation of human settlements, setting up of industries and other commercial enterprises, promotion of activities like tourism without checks and regulations and diminution of biodiversity. All these have separately and collectively contributed to the present situation in the Western Ghats region which is ecologically very sensitive and valuable. A western ghat State which has inflicted the most damage on the environment has come to suffer the most.

The report of the Madhav Gadgil Committee which studied the destruction caused to the Western Ghats environment and made sensible recommendations to remedy the situation was thrown into the dust bin, and another committee under Dr K Kasturirangan was setup to water down its proposals. The recommendations of the Kasturirangan Committee were also not implemented. Gadgil had prophetically warned in 2013 that the tragedy that is waiting to happen will not take ages but only four or five years to happen. The abnormal natural events and the huge devastation caused by them now may only be intimations of bigger calamities lying in wait in future. Lives which are lost now will not be regained, and nature which is lost will take several hundred years to rebuild itself. The greater tragedy is that the lessons of the tragedy are not learnt at all.

46. A particular state in the Western Ghats has suffered the most because
- (A) It has caused most damage on the environment
  - (B) It has most of the biodiversity hotspots of the country
  - (C) The state has many hill stations
  - (D) The state has too many checks and regulations regarding environment
47. The author of the passage regrets
- (A) Environmental ignorance on the part of policymakers
  - (B) Impact of environmental disasters
  - (C) Non-implementation of reports of committees
  - (D) Vulnerability of high altitude areas
48. Man-made structures are unable to withstand the rain impact due to
- (A) Change in monsoon behaviour in recent times
  - (B) Non-stop rains over a longer period
  - (C) Soil accumulation in the plains
  - (D) The steepness of high altitude areas

49. Which of the following factors have affected the western ghats?

- (A) Sensitive bio-diversity
- (B) Formation of human settlements
- (C) Flora and Fauna of the area
- (D) Promotion of unchecked tourism

Choose the correct answer from the options given below

- (A) A and B only
- (B) B and C only
- (C) B and D only
- (D) C and D only

50. What is the real tragedy with respect to natural disasters in the Western ghats?

- (A) Downgrading the disasters
- (B) Loss of human lives
- (C) Not realising the gravity of the consequences of climate change
- (D) The abnormal natural events

Aiifer

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	D
2	B	27	B
3	B	28	C
4	D	29	C
5	A	30	C
6	C	31	B
7	D	32	A
8	A	33	C
9	C	34	A
10	D	35	B
11	D	36	A
12	B	37	D
13	C	38	B
14	B	39	D
15	D	40	C
16	A	41	C
17	A	42	C
18	D	43	D
19	D	44	A
20	B	45	D
21	C	46	A
22	B	47	C
23	B	48	A
24	B	49	C
25	D	50	C



Success is the sum of  
small efforts, repeated  
day in and day out  
**YOU MUST DO IT**



## 26-12-2021 HND\_ AN

Study the given table and answer the questions that follow.

Given below is a table having the number of athletes (in hundreds) who participated in a sports event from 4 different countries (A,B,C,D). M-Male, F-Female.

Countries →	A		B		C		D	
Year	M	F	M	F	M	F	M	F
2016	3.6	3.2	4.2	3.7	3.4	2.8	5.6	4.2
2017	4.3	2.9	3.8	1.7	3.2	1.9	4.8	3.8
2018	5.3	3.9	5.4	3.7	3.7	2.2	6.4	4.2
2019	6.7	4.3	6.7	5.6	3.1	1.8	5.6	2.8
2020	8.3	7.2	6.9	5.4	4.1	2.5	5.4	2.7

- What is the percentage of female athletes in 2017?  
(A) 37%  
(B) 38%  
(C) 39%  
(D) 40%
- Which country has the minimum number of male athletes during 2016 to 2020?  
(A) A  
(B) B  
(C) C  
(D) D
- Find out the difference between average male athletes in 2016 and average male athletes in 2017.  
(A) 0.6  
(B) 0.7  
(C) 0.8  
(D) 0.9
- Which country has the best 'Total Male-Female ratio' from 2016 to 2020?  
(A) A  
(B) B  
(C) C  
(D) D
- Which country has the highest number of female athletes during 2016 to 2020?  
(A) A  
(B) B  
(C) C  
(D) D
- Match List I with List II

List I	List II
A. The Education commission	I. 2009
B. National Policy on Education	II. 1964-66
C. University Education Commission	III. 1986
D. National Knowledge Commission	IV. 1948-49

Choose the correct answer from the options given below:

- (A) A -I, B -III, C -II , D -IV
- (B) A -I, B -III , C -IV , D -II
- (C) A -II , B -III , C -IV, D-I
- (D) A -IV, B -III, C -II , D -I

7. Given below are two statements

Statement I: In a learning organisation, the learning of teachers, their professional development, and the learning of children, their education, are inevitably complementary and mutually reinforcing.

Statement II: Intrapersonal intelligence does not involve understanding the inner world of emotions and thoughts, and developing the ability to control and consciously work with them.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

8. SWAYAM is initiated by Govt of India with an objective to

- A. Ensure best quality content produced and delivered
- B. Provide quality materials with nominal cost
- C. Teach all classes from class-IX to PG
- D. Assess students continuously and grant degrees
- E. Accessed by anyone, anywhere at anytime

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and D only
- (C) A, C and E only
- (D) B, C and D only

9. Name the fallacy committed in

“Some good actors are not strong men.  
All professional wrestlers are strong men.  
Therefore, All professional wrestlers are good actors”

- (A) Affirmative conclusion from Negative Premises
- (B) Illicit major
- (C) Illicit minor
- (D) Undistributed middle

10. A, B and C share a certain sum of money among themselves. A gets 35%, B gets ₹1500 and C gets  $\frac{1}{20}$ . How much is the original sum of money?

- (A) ₹ 1500
- (B) ₹ 2000
- (C) ₹ 2250
- (D) ₹ 2500

11. Identify the correct sequence of countries that are the world's leading geothermal power (in MW) producers.

- A. New Zealand
- B. Iceland
- C. USA
- D. Indonesia

Choose the correct answer from the options given below

- (A)  $A > C > B > D$
- (B)  $C > A > B > D$
- (C)  $C > D > A > B$
- (D)  $D > C > A > B$

12. What type of validity is this in which the researcher is encouraged to deduce hypotheses from a theory that is relevant to the concept?

- (A) Concurrent validity
- (B) Construct validity
- (C) Convergent validity
- (D) Face validity

13. Match List I with List II

List I	List II
A. Montreal Protocol	I. Environment and sustainable development
B. Rio Summit	II. Reduce the emission of Green House Gases
C. Kyoto protocol	III. Climate change mitigation and adaptation
D. Paris agreement	IV. Ozone Depletion

Choose the correct answer from the options given below:

- (A) A -II , B -III , C -IV , D -I
- (B) A -III , B -I , C -II , D -IV

- (C) A -IV , B -I , C -II , D -III  
(D) A -IV , B -II , C -I , D -III

14. There are various steps for creating survey forms using ICT application like Google Forms.

- A. Select question type and create  
B. Give name to survey form and save  
C. Make questions mandatory/keep optional  
D. Share with respondents  
E. Configure the settings

Choose the correct answer from the options given below

- (A) A, C, B, E, D  
(B) B, D, E, C, A  
(C) C, D, A, B, E  
(D) D, B, C, A, E

15. Match List I with List II

List I	List II
Organization	Nature of course for MOOC
A. CEC	I. Out of school students
B. IGNOU	II. Undergraduate education
C. NIOS	III. Teacher Training Programme
D. NITTTR	IV. School education

Choose the correct answer from the options given below:

- (A) A -I , B -IV , C -III , D -II  
(B) A -II , B -I , C -IV , D -III  
(C) A -III , B -II , C -I , D -IV  
(D) A -IV , B -III , C -II , D -I ,

16. What is a Utility program?

- (A) It is a part of the operating system which carries out defragmentation or disk formatting  
(B) It makes copies of files on another storage device  
(C) It permits the sharing and exchange of data  
(D) It translates data into a format understood by the device

17. Given below are two statements

Statement I: Open coding is achieved by linking codes to concepts to consequences to patterns of interaction and to causes.

Statement II: Axial coding is the process of breaking down, examining, comparing, conceptualizing, and categorizing data.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct  
(B) Both Statement I and Statement II are incorrect

- (C) Statement I is correct but Statement II is incorrect  
(D) Statement I is incorrect but Statement II is correct

18. Given below are two statements

Statement I: Communication reflects the dimension of power.

Statement II: Power and unethical communication are strongly inter-related.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false  
(B) Both Statement I and Statement II are true  
(C) Statement I is false but Statement II is true  
(D) Statement I is true but Statement II is false

19. Match List I with List II

List I	List II
A. Network System	I. Email
B. Operating System	II. Firewall
C. Memory	III. Mac
D. Communication	IV. ROM

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D - IV  
(B) A - II, B - III, C - IV, D - I  
(C) A - III, B - IV, C - I, D - II  
(D) A - IV, B - I, C - II, D - III

20. Which of the following statements are correct?

- A. A bullet covers 55 metres in 2 seconds. Its speed is 99 km/hr  
B. A can complete a work in 10 days. In 5 days, he can complete  $\frac{1}{5}$  fraction of the work  
C. Walking at  $\frac{3}{4}$  of his usual speed, a girl is late by  $2\frac{1}{2}$  hours. Her usual time is  $7\frac{1}{2}$  hours.  
Choose the correct answer from the given below:

- (A) A and B only  
(B) A and C only  
(C) B and C only  
(D) C only

21. Senthil said, "This lady is the wife of the grandson of my mother." Senthil is the only son of his mother and has no sister. Who is Senthil to the lady?

- (A) Brother  
(B) Daughter-in-law  
(C) Father-in-law  
(D) Husband

22. Which of the following are the missions of the National Action Plan on Climate Change?

- A. National Solar Mission  
B. Green Indian Mission

- C. Western Ghat Development Mission
- D. National Water Mission
- E. Air Pollution Mitigation Mission

Choose the correct answer from the options given below:

- (A) A,B and E only
- (B) A,B and D only
- (C) A,B,D and E only
- (D) A,C, and E only

23. Given below are two statements

Statement I: If two numbers divided by a third number give the same remainder, their difference is exactly divisible by that number.

Statement II: Least common multiple of two or more given numbers is the largest number which is exactly divisible by each of them.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

24. When a middle term does not go further than producing a state of mental oscillation between two opposite views, the case is known as

- (A) Fallacy of Asiddha (unproved middle)
- (B) Fallacy of Prakaranasam (counteracted middle)
- (C) Fallacy of Savyabhichara (irregular middle)
- (D) Fallacy of Viruddha (contradictory middle)

25. Which of the following pertains to fallacy of ambiguity?

- (A) Equivocation
- (B) Hasty generalization
- (C) The red herring
- (D) The straw man

26. Association of Indian Universities (AIU) is established with an objective to:

- A. Maintain quality and standards of universities
- B. Serve as an Inter-University Organization
- C. To facilitate communication, co-ordination and mutual consultation amongst universities
- D. To recognise universities to run different courses
- E. To act as a liaison between the universities and the governments.

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, B, C and D only
- (C) B, C and D only
- (D) B, C and E only

27. What number comes next in this sequence? 19648, 1728, 112, ?

- (A) 12
- (B) 2
- (C) 22
- (D) 62

28. What is the name of the process in which the listener provides feedback to the speaker about the message heard and the emotion conveyed and lets the speaker realize how he or she is being understood and respected?

- (A) Active listening
- (B) Active responding
- (C) Adaptive teaching
- (D) Centering behaviour

29. What is the type of graphic organiser or mind tool used for knowledge organisation that can help learners interpret, represent, and organise information by making a graphic in cooperation with others?

- (A) Concept mapping
- (B) Divergent question
- (C) Gestural prompts
- (D) Hyper media

30. Which among the following constitute personal competence?

- A. Empathy
- B. Motivation
- C. Social skills
- D. Self awareness
- E. Self regulation

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) B, C and D only
- (C) B, D and E only
- (D) C, D and E only

31. The form of asking mainly closed-ended questions that has been used in connection with the examination of people's normative standards is known as

- (A) Abductive technique
- (B) Hermeneutics technique
- (C) Outlier technique
- (D) Vignette technique

32. Read the following statement and choose the CORRECT code:

- A. Radio frequency identification systems use radio waves to read and capture information
- B. MICR (Magnetic Ink Character Recognition) characters are easy to forge and cannot be written over
- C. OMR (Optical Mark Recognition) reads marks written in pencil or pen in specific places on a form.
- D. Optical Character Recognition (OCR) scans the text and converts it into a computer-readable format
- E. Barcodes can be forged or damaged



Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and E only
- (C) A, C, D and E only
- (D) B, C, D and E only

33. The advantages of diagonal communication are:

- A. Resistance
- B. Side tracking
- C. Anomie
- D. Morale boosting
- E. Co-ordination

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) B, C and D only
- (C) B, D and E only
- (D) C, D and E only

34. In a classroom context, when innumerable meaningful messages emanate from a finite number of linguistic signals, it is called

- (A) Cognition
- (B) Information processing
- (C) Productivity
- (D) Semanticism

35. Match List I with List II

List I	List II
A. Selective coding	I. To discover the most significant or frequent initial code that makes the most analytical sense
B. Initial coding	II. The procedure of selecting the core category, systematically relating it to other categories, validating their relationships, and filling in categories that need further refinement and development
C. Focused coding	III. It specifies possible relationships between categories, these are integrative
D. Theoretical coding	IV. Comparing data with data, staying close to and remain open to exploring what is happening in data, construct and keep the code short, simple, precise and active

Choose the correct answer from the options given below:

- (A) A -I , B -III , C -II , D -IV
- (B) A -II , B -IV , C -I , D -III
- (C) A -III , B -II , C -IV , D -I
- (D) A -IV , B -I , C -III , D -II

36. Given below are two statements:

Statement I: Every time a device connects to a network, it is given an IP(Internet Protocol) address.

Statement II: Devices that never disconnect retain the same IP address.

In the light of the statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

37. Nationally Determined Contributions of European Union (EU) countries aim at a reduction in Green House Gas emissions by the year 2030 (in thereference to 1990 levels) to the extent of

- (A) 35%
- (B) 40%
- (C) 50%
- (D) 55%

38. Match List I with List II

List I	List II
A. Measurement Application	I. Automatic Oven
B. Control Application	II. Website
C. Modelling Application	III. Weather station
D. Communication Application	IV. Car Crash Simulator

Choose the correct answer from the options given below:

- (A) A - I, B - III, C - IV, D - II
- (B) A - II, B - IV, C - I, D - III
- (C) A - III, B - I, C - IV, D - II
- (D) A - III, B - IV, C - II, D - I

39. Match List I with List II

List I	List II
Proposition in Square of Opposition	Resultant
A. If 'A' is False	I. 'E' is False; 'I' is True
B. If 'E' is False	II. 'A' is True; 'E' is True
C. If 'I' is False	III. 'A' and 'O' are Undetermined
D. If 'O' is False	IV. 'E' and 'I' are Undetermined

Choose the correct answer from the options given below:

- (A) A -I , B -II , C -III , D -IV
- (B) A -II , B -IV , C -I , D -III
- (C) A -III , B -II , C -I , D -IV
- (D) A -IV , B -III , C -II , D -I

40. Identify the sequence of cultural barriers in communication as listed by experts:

- A. Methods of conflict resolution
- B. Difference in tolerance of conflicts
- C. Semantic
- D. Tone difference
- E. Word connotation

Choose the correct answer from the options given below

- (A) A, C, E, D, B
- (B) C, E, D, B, A
- (C) D, B, C, A, E
- (D) E, A, B, C, D

41. Which of the following is taken to mean inference by elimination, in which the inferred character is the residuum of a process of elimination that excludes other characters?

- (A) Paksa
- (B) Purvavat Anumana
- (C) Samanyatodrshita
- (D) Sheshavat Anumana

42. The statutory body responsible for maintaining quality and standard of teacher education in the country is:

- (A) AICTE
- (B) NCERT
- (C) NCTE
- (D) UGC

43. Match List I with List II

List I	List II
Communication paradigms	Description
A. Encoding-decoding	I. Realistic imagination of others' views
B. Intentionalist	II. Participants are autonomous information processors
C. Perspective taking	III. Conceiving communication as a process that uses language
D. Dialogism	IV. Purposeful use of language

Choose the correct answer from the options given below:

- (A) A -I , B -II , C -III , D -IV
- (B) A -II , B -III , C -IV , D -I
- (C) A -III , B -IV , C -I , D -II
- (D) A -IV , B -I , C -II , D -III

44. Which of the following contaminants in water can cause adverse human effects such as mental disturbance and impairment of speech, hearing and vision?

- (A) Arsenic
- (B) Lead
- (C) Methyl mercury
- (D) Nickel and Chromium

45. Which of the following is NOT a parameter for ranking according to NIRF?

- (A) Campus Placement
- (B) Outreach and inclusivity
- (C) Research and Professional practice
- (D) Teaching, Learning and Resources

Read the given passage and answer the following question.

Several organisational factors that cause stress-particularly task and role demands-are controlled by management and thus can be modified or changed. Strategies to consider include improved employee selection and job placement, training, realistic goal-setting, redesign of jobs, increased employee involvement, improved organisational communication, employee sabbaticals, and corporate wellness programmes. Certain jobs are more stressful than others, but, as we have seen, individuals differ in their response to stressful situations. We know individuals with little experience or an external locus of control tend to be more prone to stress. Selection and placement decisions should take these facts into consideration. Obviously, management should not restrict hiring to only experienced individuals with an internal locus, but such individuals may adapt better to high stress jobs more effectively. Similarly, training can increase an individual's self-efficacy and thus lessen job strain. Individuals perform better when they have specific and challenging goals and receive feedback on their progress toward these goals. Goals can reduce stress as well as provide motivation. Employee who are highly committed to their goals and see purpose in their jobs experience less stress, because they are more likely to perceive stress as challenge rather than a hindrance. Specific goals perceived as attainable clarify performance expectation. In addition, goal feedback reduces uncertainties about actual job performance. The result is less employee frustration, role ambiguity and stress. Predesigning job to give employee more responsibility, more meaningful work, more autonomy and increased feedback can reduce stress because these factors give employees greater control over work activities and less dependence on others.

46. Which of the following form the management strategy for reducing organisational stress factor?

- A. Achievable goals
- B. Employee wellness
- C. Compulsory leave
- D. Top-down communication

Choose the correct option:

- (A) A and B
- (B) A and D
- (C) B and C
- (D) C and D

47. Employee frustration and role ambiguity can be reduced by

- (A) Assigning low stress work
- (B) Changing the level of task performance
- (C) Harsh evaluation of job performance
- (D) Providing performance feedback to employee

48. The measures suggested in the passage to reduce organisational stress are:

- A. Redeployment of employees
- B. Allowing workers more control over their activities
- C. Retrenchment of non-performers
- D. Re-distribution of specific goals
- E. Re-designing of jobs

Choose the correct option:

- (A) A, B, C only
- (B) A, B, E only
- (C) B, C, D only
- (D) C, D, E only

49. What type of people are more prone to stress than others in the organisation?

- (A) Employee with internal locus
- (B) Individuals with job experience
- (C) People who are assigned new responsibilities
- (D) People with outside position of control

50. Which of the following can reduce the job strain?

- A. Hiring of only young people
- B. Emphasising performance expectation
- C. Commitment to the job
- D. Perception of hindrances as challenges

Choose the correct option:

- (A) A and B
- (B) A and D
- (C) B and C
- (D) C and D

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	C	26	D
2	C	27	B
3	B	28	A
4	D	29	A
5	A	30	C
6	C	31	D
7	C	32	C
8	C	33	C
9	A	34	C
10	D	35	B
11	C	36	B
12	B	37	B
13	C	38	C
14	A	39	D
15	B	40	B
16	A	41	D
17	B	42	C
18	D	43	C
19	B	44	C
20	B	45	A
21	C	46	A
22	B	47	D
23	D	48	B
24	B	49	D
25	A	50	D



The beginning is  
always the hardest  
**DON'T GIVE UP**

29-12-2021 HIS\_ FN

Study the given table carefully and answer the questions that follow(1-5)

Train Number	Source Station	Destination Station	Distance(k)	Speed(km/h)	Fair per person(Rs)	Total Seats	Reserved Seats
1001	A	P	1200	130	3000	680	400
1002	B	Q	1080	160	3600	870	550
1003	C	R	1280	155	2800	650	350
1004	D	S	1250	130	2900	980	620
1005	E	T	1180	125	3200	780	520

- Which train will take maximum time to reach the destination?  
 (A) 1001  
 (B) 1003  
 (C) 1004  
 (D) 1005
- What is the average of the number of vacant seats for all trains?  
 (A) 302  
 (B) 304  
 (C) 306  
 (D) 308
- Which train has minimum per km cost?  
 (A) 1001  
 (B) 1003  
 (C) 1004  
 (D) 1005
- which train has minimum number of vacant seats?  
 (A) 1001  
 (B) 1002



(C) 1003

(D) 1005

5. What is the time difference between the train which takes the maximum duration and the train which takes the minimum duration?

(A) 2.64

(B) 2.68

(C) 2.78

(D) 2.86

6. In the role of a test constructor, how should a teacher proceed?

A. Prepare test items that match the instructional objectives

B. List the major course or unit objectives

C. Prepare a table of specifications

D. Specify the course or unit content

E. Discard unrealistic objectives

Choose the correct answer from the options given below

(A) A, B, C, D, E,

(B) B, E, D, C, A,

(C) C, A, E, D, B,

(D) D, B, E, C, A,

7. Match List I with List II

List I	List II
Schools of Philosophy	Propounders
A. Samkhya	I. Gautam
B. Nyaya	II. Kanada
C. Vaisheshika	III. Kapila

D. Purvamimansa	IV. Jamni

- (A) A - I, B - III, C - IV, D - II  
 (B) A - II, B - I, C - IV, D - III  
 (C) A - III, B - I, C - II, D - IV  
 (D) A - IV, B - III, C - II, D - I

8. The communication between two persons through letters is an instance of:

- (A) Interpersonal nonverbal communication  
 (B) Interpersonal verbal communication  
 (C) Intrapersonal nonverbal communication  
 (D) Intrapersonal verbal communication

9. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Denotation cannot be used to define words that have an empty extension

Reason R: Although connotation determines denotation, denotation does not determine connotation

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is correct but R is not correct  
 (B) A is not correct but R is correct  
 (C) Both A and R are correct and R is the correct explanation of A  
 (D) Both A and R are correct but R is NOT the correct explanation of A

10. Match List I with List II

List I	List II
Government of India Projects	Purpose
A. Shodhganga	I. Expert database + Researcher network

B. SWAYAM PRABHA	II. Thesis database
C. Vidwan	III. Online content delivery platform
D. SAKSHAT	IV. DTH educational channel

Choose the correct answer from the options given below:

- (A) A - I, B - III, C - II, D - IV
- (B) A - II, B - IV, C - I, D - III
- (C) A - III, B - II, C - IV, D - I
- (D) A - IV, B - I, C - III, D - II

11. Rain is termed as acid rain when its pH value is

- (A) 1-3
- (B) 5.6-7.0
- (C) Less than 5.6
- (D) More than 7

12. Which of the following statements are correct?

- A. The sum of three consecutive multiples of 3 is 72. The largest number is 27.
- B. A number when multiplied by 13 is increased by 180. The number is 13.
- C. The average of first 20 multiples of 7 is 73.5.

Choose the correct answer from the options given below:

- (A) A and B only
- (B) A and C only
- (C) A only
- (D) B and C only

13. Identify the fallacy committed in the following argument:

"American Indians are disappearing.

That man is an American Indian.

Therefore, that man is disappearing."

- (A) Fallacy of Accident
- (B) Fallacy of Composition
- (C) Fallacy of Converse Accident
- (D) Fallacy of Division

14. In communication, a shrug of shoulders indicates

- (A) Honesty
- (B) Indifference
- (C) Interest
- (D) Responsibility

15. The ages of Lokendra and Dharmendra are in the ratio 6:5 and the sum of their ages is 44 years. What will be the ratio of their ages after 4 years?

- (A) 7:6
- (B) 7:8
- (C) 8:7
- (D) 9:7

16. Dewatering of sewage sludge can be achieved by

- A. Gravity thickening
- B. Mechanical stirring
- C. Osmosis
- D. Floatation
- E. Screening

Choose the correct answer from the options given below:

- (A) A, B and D only
- (B) A, C and D only
- (C) B, C and E only
- (D) C, D and E only

17. Which one of the following isotopes of Uranium is fissile material and can be used for nuclear reactions?

- (A) U-234
- (B) U-235
- (C) U-236
- (D) U-238

18. Which of the following statements regarding Intranets are correct?

- A. The Intranet can be accessed from anywhere by anyone
- B. The Intranet has public access
- C. They are more secure than internet
- D. In Intranet, it is possible to control external links

- (A) A, B and C only
- (B) A, C and D only
- (C) B and C only
- (D) C and D only

19. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Student's t-statistic is a robust statistic.

Reason R: Student's t-statistic can yield accurate analysis of data, even if some of the assumptions of parametric statistics are violated.

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

20. Given below are two statements

Statement I: Sample sizes for qualitative research vary by technique but are generally small.

Statement II: Qualitative research involves non-probability sampling.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true

- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

21. The condition that there should be an absence of contradiction in the relation of the objects denoted in the combination of words, for the sentence to be significant is known as which one of the following?

- (A) Ākārksā,
- (B) Sannidhi
- (C) Tātparya
- (D) Yogyatā

22. The name of the MOOC platform developed by IIT Kanpur is

- (A) Causera
- (B) MOOCK
- (C) mooKIT
- (D) SWAYAM

23. Given below are two statements

Statement I: "The improvement of Secondary Education was an essential foundation for the improvement of Secondary Education", was the view held by the Calcutta University Commission

Statement II: The Calcutta University Commission recommended the use of mother tongue in the intermediate colleges for teaching all the subjects

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

24. Disruptive technologies in education mean

- (A) New technologies that completely change the way things are done in education
- (B) Obsolete technology

- (C) Prevention of technology in education
- (D) Use of Artificial Intelligence

25. Which one of the following is a strategy to overcome communication barriers?

- (A) Advance technology provision
- (B) Aggression
- (C) Setting of ground rules
- (D) Use of jargon

26. Which one of the following is an example of form of New Media?

- (A) Instagram
- (B) Newspapers
- (C) Radio
- (D) TV

27. Given below are two statements regarding phishing.

Statement I: It is a program code that can replicate itself with the intention of deleting files.

Statement II: It can be filtered but at the Internet Service Provider's (ISP) level.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

28. In the series 9, 18, 36, --- what will be 12th term?

- (A) 18232
- (B) 18432
- (C) 18556
- (D) 18652

29. Given below are two statements

Statement I: At 8.55% rate of simple interest, a certain sum will be doubled in 12 years.

Statement II: In 3 years ₹1000 will become ₹1331 at compound interest rate of 10% per annum.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

30. Given below are two statements, one is labelled as Assertion A and the other is labelled as

Reason R

Assertion A: In classroom communication, Socratic questioning is one of the effective strategies to promote understanding.

Reason R: Feedback through student evaluation of teachers enhances the quality of classroom communication.

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

31. Which among the following is an example of descriptive statistic?

- (A) Chi-square
- (B) Regression
- (C) Standard deviation
- (D) t-statistic

32. The presence of which of the following points poses challenge for higher education system as per NEP-2020?

- A. Large affiliating universities
- B. Ineffective regulatory system
- C. Limited teacher and institutional autonomy
- D. Emphasis on research
- E. Efficient merit based career management and progression of faculty members



Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and D only
- (D) C, D and E only

33. Given below are two statements

Statement I: A vyapti between two terms of equal extension is called Samavyapti.

Statement II: The relation between fire and smoke is that of Samavyapti.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

34. The World Wide Web (www) is

- (A) A collection of multimedia web pages and other documents which are stored on websites
- (B) A company which allows a user to connect to the Internet
- (C) A massive network of networks which are made up of various computers
- (D) The Internet makes use of TCP/IP protocol

35. An undergraduate degree with Honors in a discipline may be awarded if a student completes

- A. 14 core papers in that discipline
- B. 2 Ability Enhancement Compulsory Courses
- C. 2 Research paper published in any UGC CARE listed journal
- D. Minimum 2 Skill Enhancement courses
- E. 4 papers each from a list of discipline specific elective and generic elective papers

Choose the correct answer from the options given below:

- (A) A, B, C and D only
- (B) A, B, D and E only
- (C) A, C, D and E only
- (D) B, C, D and E only

36. Match the list I and II

List I	List II
Name of Memory Size	Number of bits
A. MB (Megabyte)	I. $2^{30}$
B. GB (Gigabyte)	II. $2^{50}$
C. TB (Terabyte)	III. $2^{20}$
D. PB (Petabyte)	IV. $2^{40}$

Choose the correct answer from the options given below:

- (A) A - II, B - I, C - III, D - IV  
 (B) A - II, B - III, C - I, D - IV  
 (C) A - III, B - I, C - IV, D - II  
 (D) A - III, B - II, C - I, D - IV

37. Who chaired the first committee constituted by Government of India on Women's education after independence?

- (A) Dr. Durga bai Deshmukh  
 (B) Dr. Radhakrishnan  
 (C) Hansa Mehta  
 (D) Kamala Chaudhary

38. Which among the following are the source of threat to external validity?

- A. Sample characteristics  
 B. Novelty/uniqueness of stimulus  
 C. Improper manipulation of I.V.  
 D. Lack of motivation on the part of the participants

### E. Reactivity of the assessments

Choose the correct answer from the options given below:

- (A) A, B and E only
- (B) A, B and D only
- (C) B, D and E only
- (D) C, D and E only

### 39. Given below are two statements

Statement I: The brain continues to develop throughout childhood and adolescence.

Statement II: The logical and goal-directed actions begin in the sensorimotor period.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

### 40. Match List I with List II

List I	List II
Acts	Year of Inception
A. Water Prevention and Control Act	I. 1986
B. Air Prevention and Control Act	II. 1974
C. Environment Protection Act	III. 1987
D. The Factories Amendment Act	IV. 1981

- (A) A - II, B - IV, C - I, D - III
- (B) A - II, B - IV, C - III, D - I
- (C) A - III, B - I, C - II, D - IV
- (D) A - IV, B - III, C - I, D - II

41. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: The in-situ passive soil remediation process is the easiest to implement and the least expensive

Reason R: It relies upon several natural processes to destroy the contaminants

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is correct but R is not correct
- (B) A is not correct but R is correct
- (C) Both A and R are correct and R is the correct explanation of A
- (D) Both A and R are correct but R is NOT the correct explanation of A

42. Identify the fallacy committed in the argument

All cats are animals.

All dogs are animals.

Therefore, all dogs are cats.

- (A) Existential Fallacy
- (B) Fallacy of Four Terms
- (C) Fallacy of the Exclusive Premises
- (D) Fallacy of the Undistributed Middle Term

43. The exercise of reviewing the relevant literature is most closely related for which one of the following?

- (A) For analyzing quantitative data
- (B) Formulating research problems
- (C) Generalization of the finding

(D) In drawing a sample for the study

44. Hypertext Transfer Protocol (HTTP) is

- (A) A text-based protocol used when sending emails
- (B) Fetching an HTML document from a web server
- (C) Protocol used to find an IP address
- (D) Transferring file from one computer to another

45. When a sum of money was distributed to 12 boys instead of 16 boys, each boy got ₹40 more.  
What was the sum?

- (A) 1290
- (B) 1920
- (C) 480
- (D) 840

Read the passage carefully and answer the questions that follows(46-50)

Throughout history, people have turned to mythology, folklore and religion for explanations of life's origins, and to this day, there are many who firmly believe what has been written in religious books and passed down from generation to generation. With the advent of the Age of Reason in the 18th century and scientific advances in the 19th century, however, the quest for deeper knowledge could be satisfied by digging for empirical evidence and putting it to empirical test.

In 1865, Gregor Mendel, an Austrian monk who had been experimenting for eight years with garden peas, announced to the scientific community that specific characteristics, or traits, were transmitted from parent to offspring in an organized and predictable manner. Along with Charles Darwin's Theory of Natural Selection and evolution, as stated in his 1859 publication, 'On the Origin of Species'. Mendel's work set the stage for the science of genetics to become the prominent explanation of where life comes from. With the help of improved microscopes, scientists discovered the existence and structure of cells containing chromosomes. In the early 1900s, experiments with fruit flies revealed that chromosomes located in the cell's nucleus were made of genes. The *Drosophila*, commonly called fruit fly, was the first living organism to be genetically mapped. In 1944, Oswald Avery identified genes in bacteria as genetic messengers made of DNA. In 1953, James Watson and Francis Crick discovered the double-helix structure of DNA, for which they received the Nobel Prize nine years later. With each ground breaking discovery, molecular

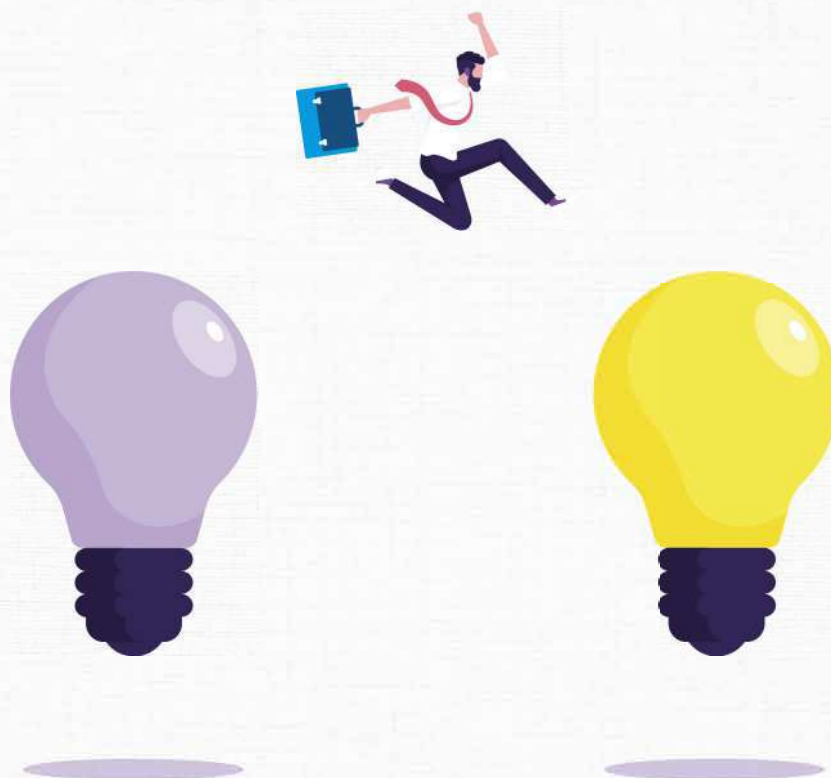
biologists were able to form an even clearer picture of the mechanics of life. To crack the code of life, prominent scientists proposed compiling a comprehensive genetic map of a human being.

46. What helped molecular biologists to form a clearer picture of the mechanisms of life?
- (A) Evidence based discoveries
  - (B) Incentives like Nobel Prize
  - (C) Knowledge from myths
  - (D) Technical limitations
47. What is the meaning of 'empirical evidence'?
- (A) based on knowledge from historical empires
  - (B) based on mythology and folklore
  - (C) based on observation and capable of being verified
  - (D) based on received knowledge
48. What is the theme of this passage?
- (A) Belief versus science
  - (B) Origin and mechanics of life
  - (C) Scientific knowledge from ancient times
  - (D) Structure of cell
49. Whose scientific contributions inaugurated the science of genetics?
- (A) Charles Darwin
  - (B) Gregor Mendel and Charles Darwin
  - (C) Gregor Mendel
  - (D) James Watson and Francis Crick
50. According to the author, what were the initial sources of information for understanding the beginning of life?
- (A) Discoveries of Mendel and Darwin
  - (B) Folk knowledge and scriptures
  - (C) Imaginative literature
  - (D) Scientific discoveries

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	C	26	A
2	B	27	C
3	B	28	B
4	D	29	C
5	D	30	D
6	D	31	C
7	C	32	A
8	B	33	D
9	D	34	A
10	B	35	B
11	C	36	C
12	B	37	A
13	D	38	A
14	B	39	A
15	A	40	A
16	A	41	C
17	B	42	D
18	B	43	B
19	C	44	B
20	B	45	B
21	D	46	A
22	C	47	C
23	B	48	B
24	A	49	B
25	C	50	C

Done is better  
than perfect  
**KEEP DOING**





29-12-2021 HIS\_ AN

Study the given table carefully and answer the questions that follow:

The given table has the number of candidates who appeared and qualified for an university entrance examination (in thousands) in 5 different years. (Appeared, Q-Qualified).

Year	BSc		BA		MSc		MA	
	A	Q	A	Q	A	Q	A	Q
2016	3.4	1.2	6.4	2.3	2.8	1.3	4.8	2.4
2017	3.6	1.8	6.6	2.5	2.4	1.1	4.7	2.3
2018	4.2	2.1	7.2	2.8	2.2	1.2	4.6	2.5
2019	4.8	2.3	6.8	2.6	2.5	1.2	4.9	2.7
2020	3.8	1.9	7.4	3.2	2.6	1.3	5.2	3.2

- Find out the difference between the total number of students who qualified for graduate level examination (B.Sc. + B.A.) and post graduate level (Msc + MA) examination during 2016-2020.
  - 3400,
  - 3500
  - 3600
  - 3700
- Find out the difference between non-qualified candidates from the years 2018 and 2019 (for all categories)
  - 550
  - 560
  - 575
  - 600
- Find out the difference between the average of Qualified candidates (2016-2020) of M.Sc. and the average of Qualified candidates (2016-2020) of MA?
  - 1350
  - 1375
  - 1400
  - 1425

4. What is the average of the difference between total number of candidates who Appeared and the Qualified candidates for the stream B.Sc. for 2016-2020?
- (A) 2100  
(B) 2120  
(C) 2125  
(D) 2135
5. For which year, the difference between non-Qualified candidates of B.Sc. and B.A. is minimum?
- (A) 2016  
(B) 2017,  
(C) 2018,  
(D) 2019
6. Given below are two statements  
Statement I: The average of all prime numbers between 30 and 50 is 38.9.  
Statement II: The average of first 15 natural numbers is 150.  
In light of the above statements, choose the correct answer from the options given below
- (A) Both Statement I and Statement II are false  
(B) Both Statement I and Statement II are true  
(C) Statement I is false but Statement II is true  
(D) Statement I is true but Statement II is false
7. Given below are two statements regarding Denial of Service attacks  
Statement I: It is an attempt at preventing users from accessing part of a network, notably internet servers.  
Statement II: It can be mitigated by using email filters. In light of the above statements, choose the correct answer from the options given below
- (A) Both Statement I and Statement II are false  
(B) Both Statement I and Statement II are true  
(C) Statement I is false but Statement II is true  
(D) Statement I is true but Statement II is false
8. When a sum of money was distributed to 10 boys instead of 15 boys, each boy got Rs. 50more. What was the sum?
- (A) 1000  
(B) 1200  
(C) 1250  
(D) 1500
9. Given below are two statements  
Statement I: Summer smog is primarily associated with photochemical formation of ozone and other pollutants  
Statement II: The Great Smog of London disaster, is a classic example of summer smog  
In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

10. Water in a river flows at 15 km/hr and a man who runs his boat at a speed of 25 km/hr in still water, takes 7 hours to go a certain distance upstream and then return to the starting point. Total distance covered by the man is

- (A) 112Km
- (B) 56Km
- (C) 62Km
- (D) 92Km

11. Given below are two statements.

Statement I: The advance organiser model is designed to strengthen students' cognitive structures their knowledge of a particular subject at any given time and how well organised, clear and stable that knowledge is.

Statement II: Cognitive structure has nothing to do with what kind of knowledge of a field is in our minds, how much of it is there, and how well it is organised. In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

12. Given below are two statements

Statement I: Power of a statistical test refers to its ability to reject the null hypothesis when it is incorrect

Statement II: The value of standard deviation of a sample indicates its homogeneity / heterogeneity.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

13. Following are some statements regarding software copyright. Choose the correct statements.

- A. Use of a product key supplied with original software
- B. Sign a licence agreement
- C. Use of holograms on original packaging
- D. Use of dongles to prevent illegal use.

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, B, C and D
- (C) B and C only
- (D) B, C and D only

14. Given below are two statements

Statement I: Two subcontrary propositions cannot both be false.

Statement II: Two subcontrary propositions must both be true

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

15. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: According to the Nyaya system, when one observes smoke at a particular locus, one could infer that the same locus has the presence of fire too.

Reason : Fire causes smoke , and is always accompanied by smoke.

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

16. In communication, cross-cultural barrier refers to:

- (A) General human values
- (B) Perceptions of people
- (C) Physical entities
- (D) Sincerity of speaker

17. Which of the following are the main goals of the Convention on Biological Diversity's (CBD's)?

- A. Protection of water resources
- B. The conservation of biological diversity
- C. Promotion of shifting agriculture
- D. The sustainable use of biological components
- E. FAIR AND equitable sharing of benefits arising from genetic resources

Choose the correct answer from the options given below:

- (A) A, B and only
- (B) A, C, and E only
- (C) A, D and E only
- (D) B, D and E only

18. The term File drawer problem" is related to

- (A) Case history,
- (B) Ethnography
- (C) Experimentation
- (D) Meta analysis

19. Arrange the following naturally occurring Uranium isotopes in the correct sequence as per the proportion of occurrence

- A. U-234
- B. U-235
- C. U-238

Choose the correct answer from the options given below

- (A) A, B, C,
- (B) B, C, A,
- (C) C, A, B,
- (D) C, B, A,

20. Which of the following statements are true with reference to Vyapti (concomitance) according to the Nyaya system?

- A. It expresses the relation between two individuals objects only
- B. It expresses the relation between the classes of individuals
- C. It can be said to exist between two things if they are related as cause and effect.
- D. It can be said to exist between two things if they are related as species and genus

Choose the correct answer from the options given below:

- (A) A, C and D only
- (B) B and C only
- (C) B, C and D only
- (D) C and D only

21. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: One of the important aims of research is the development of a theory.

Reason R: Both facts and theory are important for doing the research.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is correct but R is not correct
- (B) A is not correct but R is correct
- (C) Both A and R are correct and R is the correct explanation of A
- (D) Both A and R are correct but R is NOT the correct explanation of A

22. Chatting on WhatsApp is an example of

- (A) Asynchronous communication
- (B) Friendly communication
- (C) Non-verbal communication
- (D) Synchronous communication

23. How many Indian languages have been declared endangered by UNESCO?

- (A) 117
- (B) 197
- (C) 47
- (D) 87

24. Debriefing involves several activities following the collection of data :

- A. Explanation of any deception
- B. Explaining the superiority of the present research
- C. Description of the purpose of the study
- D. Post-study follow-up medical or psychological attention
- E. Publication of the finding of the research in a journal

Choose the correct answer from the options given below:

- (A) A, B and only
- (B) A, C and D only
- (C) B, C and D only
- (D) C, D and E only

25. "Have you stopped stealing from your parents?" Which one of the following fallacies is committed in this argument ?

- (A) Appeal to Ignorance
- (B) Appeal to Pity
- (C) Begging the Question
- (D) Complex Question

26. Match List I with List II

List I	List II
ICT Tool for Teaching	Purpose
A. Google Classroom	I. Assesment of learning
B. Google Meet	II. Synchronous interaction
C. Google Quiz	III. Acces to course content
D. Google Jamboard	IV. Colloborative tasks

Choose the correct answer from the options given below:

- (A) A-I, B- V, C-III, D-II
- (B) A-II B-I, C-IV ,D-III,

(C) A - III, B-II, C-I, D-IV

(D) A - IV, B-III, C-II, D-I

27. Characteristics of good measurement are

- A. Reliability
- B. Accuracy
- C. Objectivity
- D. Validity
- E. Practicability

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and D only
- (C) A, D and E only
- (D) B, C and D only

28. The communication which happens outside the realm of interpersonal communication is

- (A) Interpersonal communication
- (B) Intrapersonal communication
- (C) Mass communication
- (D) Upward communication

29. Which Operating System is used by the Apple computer systems (an American technology company)

- (A) Linux
- (B) Mac
- (C) Solaris
- (D) Windows

30. Find the missing term in the following series

2, 5, 10, 17, 26, ?

- (A) 35
- (B) 36
- (C) 37
- (D) 38

31. The major objective of value education in institutions is

- (A) Acquainting students with the value of education
- (B) Developing ideal teachers
- (C) Developing responsible and good citizens
- (D) Value for society

32. Which one of the following Articles of the Indian Constitution talks about our duty to protect the environment?

- (A) Article 51A(a)
- (B) Article 51A(c)
- (C) Article 51A(e)
- (D) Article 51A(g)

33. Match List I with List II

List I Network Security Technique	List II Implementation Technique
A. Symmetric encryption	I. Public and private key
B. Asymmetric encryption	II. Digital signature
C. Authentication	III. Secret key
D. Denial of Service Avoidance	IV. Email filter

Choose the correct answer from the options given below:

- (A) A - I, B- III, C-IV, D II,
- (B) A II, B-I, C-III, D-IV,
- (C) A-II, B-I, C-IV, D III,
- (D) A - III, BI, C-II, D-IV,

34. Which among the following are the main thrusts of the NEP-200 regarding institutional restructuring and consolidation?

- A. A rigid separation of discipline, with early specialization and streaming of students into narrow areas of study
- B. Developing a spectrum of institutions with a focus on research only
- C. To establish stage-wise mechanism for granting graded autonomy to colleges
- D. Developing vibrant communities of scholars, breaking down harmful silos, enable students in disciplines including artistic, creative and sports
- E. to end the fragmentation by transforming higher education institutions into large multidisciplinary universities

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and D only
- (D) C, D and E only

35. The theory of meaningful verbal learning deals with which of the following concerns?

- A. How knowledge (curriculum content) is organised
- B. How the mind works to process new information (learning)
- C. How teachers can apply ideas about curriculum and learning when they present new material to students (instruction)
- D. How the students provide responses to critical questions (questions response)



E. How the institution has established a language lab (infrastructure)

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, B and D only
- (C) A, B and E only
- (D) C, D and E only

36. Match List I with List II

List I	List II
A. University Education Commission	I. Dr L Mudaliyar
B. Secondary Education Commission	II. Dr Radha Krishnan
C. Education Commission	III. Dr Sam Pitroda
D. National Knowledge Commission	IV. Dr DS Kothari

Choose the correct answer from the options given below:

- (A) A-I, B-II, C-III, D-IV,
- (B) A-II B-I, C-IV D-III,
- (C) A-III, B-I, C-IV, D-II,
- (D) A-IV, B-III, C-II, D-I,

37. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: The classroom communication is a transactional process

Reason R: Quality of questions asked determines the quality of learning

In light of the above statements, choose the correct answer from the options

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

38. Given below are two statements

Statement I: National Commission of Higher Education and Research (NCHER) is the apex regulatory body for Higher Education in India

Statement II: The Independent Regulatory Authority for Higher Education will not be dealing with entry regulatory functions of AICTE, MCI and BCI, as recommended by the National Knowledge Commission

In light of the above statements,

choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct

- (B) Both Statement I and Statement II are incorrect
  - (C) Statement I is correct but Statement II is incorrect
  - (D) Statement I is incorrect but Statement II is correct
39. The communication between two or more persons who are subordinates working under the same person is an example of :
- (A) Diagonal communication
  - (B) Downward communication
  - (C) Lateral communication
  - (D) Upward communication
40. Which model is designed to provide students with a cognitive structure for comprehending material presented through lectures, readings and other media?
- (A) Advance organisers
  - (B) Inductive thinking
  - (C) Mnemonic
  - (D) Scientific inquiry
41. Given below are two statements
- Statement I: The single discount equivalent to a series discount of 10 %, 20 % and 30 % is 40 %
- Statement II: The single discount equivalent to a series discount of 15 %, 25% and 30 % is 50 %
- In light of the above statements, choose the correct answer from the options given below
- (A) Both Statement I and Statement II are false
  - (B) Both Statement I and Statement II are true
  - (C) Statement I is false but Statement II is true
  - (D) Statement I is true but Statement II is false
42. What Phishing?
- (A) A key logging software
  - (B) It uses networks to search out computers
  - (C) Re-directs the user to a fake website
  - (D) Someone sends legitimate-looking emails to users
43. Which one of the following options describes a valid deductive argument with all the premises and the conclusion as True?
- (A) Improbable Argument
  - (B) Probable Argument
  - (C) Sound Argument
  - (D) Unsound Argument
44. When a teacher presents the most general ideas of the discipline first, followed by a gradual increase in detail and specificity, it is known as
- (A) Cooperative learning

- (B) Inductive thinking
- (C) Jurisprudential inquiry
- (D) Progressive differentiation

45. Given below are two statements

Statement I: In waste water treatment systems, most of the large floating materials are removed in the screen chamber

Statement II: Colloidal and dissolved organic content of waste water are removed in the grit chamber

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

Study the given table carefully and answer the questions that follow: The given table has the number of candidates who appeared and qualified for | an university entrance examination (in thousands) in 5 different years (A Appeared, Q-Qualified)

year	BSC		BA		MSC		MA	
	A	Q	A	Q	A	Q	A	Q
2016	34	12	64	23	28	13	48	24
2017	36	18	66	25	24	11	47	23
2018	42	21	72	28	22	12	46	25
2019	48	23	68	26	25	12	49	27
2020	38	19	74	32	26	13	52	32

Read the given passage and answer the questions that follow:

There is no such thing as memory in the sense of something that can be seen, touched or weighed Memory is an abstraction referring to a set of skills rather than to an object Neither is there a single standard for judging a good or poor memory There are a number of different ways in which a person may have a 'good' memory

Memory is generally viewed as consisting of three stages (1) Acquisition refers to learning the material; (2) Storage refers to keeping the material in the brain until it is needed; and (3)

Retrieval refers to getting the material back out when it is needed These three stages may be viewed the 4 R's of Remembering, Recording, Retaining and Retrieving

Memory consists of at least two different processes: short-term memory and long-term memory Short-term memory has a limited capacity and rapid

forgetting rate Its capacity can be increased by chunking, or grouping separate bits of information into larger chunks Long-term memory has a

virtually unlimited capacity One measure of memory is recall In aided recall, cues help to produce information A second measure of memory is recognition in which one must be able to identify it when it is presented In a third measure of memory,

relearning, the difference between how long it took to learn the material the

first time and how long it takes to learn it again indicated how much one can remember  
There are several explanations of why we forget Passive-decay theory says that learning causes a physical 'trace' in the brain that decays with time Repression theory says that we purposely push unpleasant memories into unconscious mind Systematic-distortion theory says that our memories may be distracted by our values and interests Inference theory says that forgetting is due to problems in retrieving the information, and that we can remember almost anything, if given right cues

46. What are the constituent elements of memory in the order presented by the | author?

- (A) Acquire-Retrieve Store
- (B) Acquire-Store Retrieve
- (C) Recall Retrieve Recognize
- (D) Store Acquire-Retrieve

47. Which one of the following is not a measure of memory?

- (A) Recall
- (B) Recognize
- (C) Record
- (D) Relearning

48. Memory not a sensory experience because it is a/an

- (A) Absence of single standard for judging the quality of memory
- (B) Concrete skill
- (C) Hybrid skill
- (D) Value

49. "Systematic-distortion theory" offers an explanation for

- (A) Acquiring
- (B) Forgetting
- (C) Remembering
- (D) Retrieving

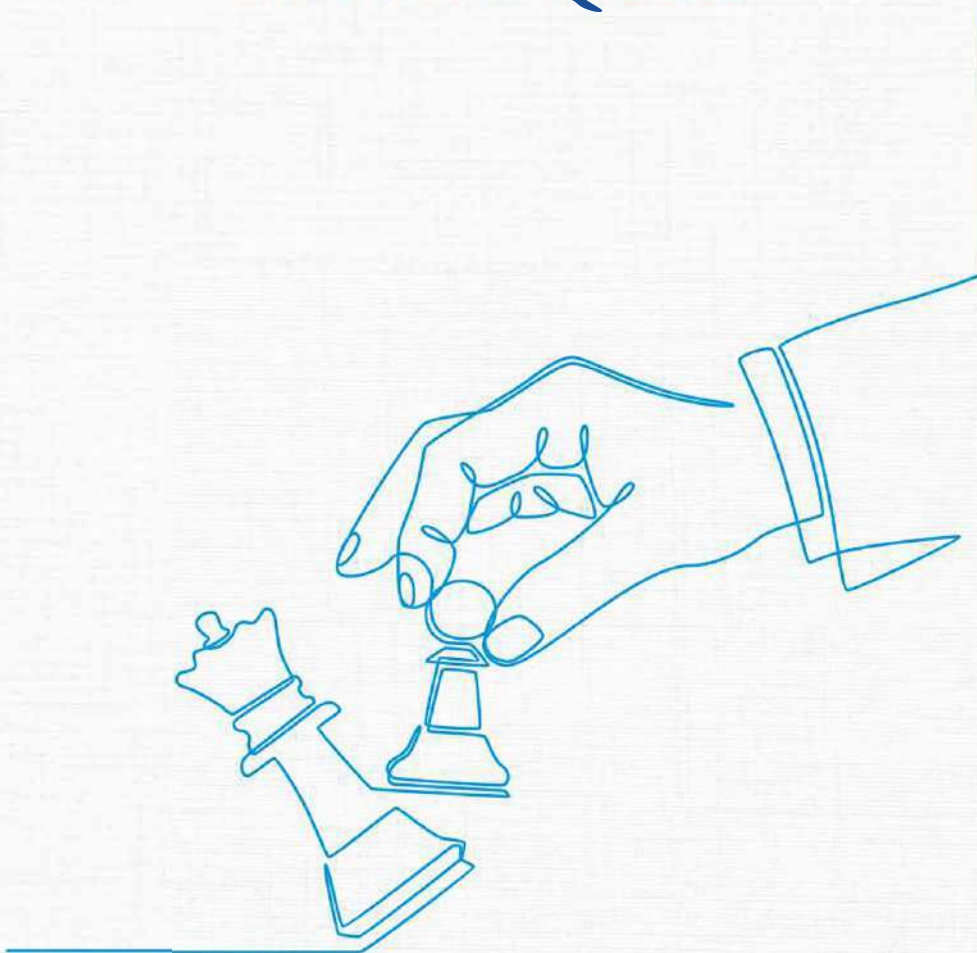
50. This text can be taken as an answer to which one of the following question

- (A) How can we measure memory?
- (B) What are the types of memory ?
- (C) What is memory ?
- (D) Why do we forget?

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	C
2	D	27	C
3	C	28	C
4	A	29	B
5	D	30	C
6	A	31	C
7	B	32	D
8	D	33	D
9	A	34	D
10	A	35	A
11	C	36	B
12	B	37	D
13	B	38	B
14	C	39	C
15	B	40	A
16	B	41	A
17	D	42	D
18	D	43	C
19	D	44	D
20	C	45	C
21	D	46	B
22	D	47	C
23	B	48	C
24	B	49	B
25	D	50	C

Losing an opportunity  
means losing success  
**NEVER QUIT**



## 27-12-2021 HMS\_ FN

Study the table carefully and answer the question that follow.

The following table have 5 items along with number of items brought and sold for each quarter for each item.

(B - Item brought initially in the quarter, S - Item sold in that quarter)

Quarter->	Q1		Q2		Q3		Q4	
Items	B	S	B	S	B	S	B	S
A	300	170	400	335	370	320	410	370
B	270	180	280	200	350	330	380	340
C	280	210	350	310	250	200	250	200
D	320	250	340	290	280	180	280	240
E	325	275	370	315	320	170	265	190

- What is the percentage increase of items sold from Q1 to Q2 ?  
 (A) 31. 36  
 (B) 31. 53  
 (C) 32. 74  
 (D) 33. 64
- Which quarter has the minimum bought to sold ratio?  
 (A) Q1  
 (B) Q2  
 (C) Q3  
 (D) Q4
- Which item has the minimum average items sold for all quarters?  
 (A) B  
 (B) C  
 (C) D  
 (D) E
- Which quarter has maximum number of items sold?  
 (A) Q1  
 (B) Q2  
 (C) Q3  
 (D) Q4
- Find out the average of difference of item brought and item sold for Quarter 1.  
 (A) 81  
 (B) 82  
 (C) 83  
 (D) 84
- In which one of the following types of communication, the data is pushed from a server to a client without client request?  
 (A) Ancient Technology

- (B) Education Technology
- (C) pull technology
- (D) push technology

7. Match List I with List II

List I	List II
Information processing model	Developer
A. Inductive thinking	I. Hilda Taba
B. Mnemonics	II. Michael Pressley
C. Advance organisers	III. Bill Gordon
D. Synectic's	IV. David Ausubel

Choose the correct answer from the options given below:

- (A) A -I , B -II , C -IV , D -III
  - (B) A -II , B -IV , C -III , D -I
  - (C) A -III , B -I , C -II , D -IV
  - (D) A -IV , B -III , C -I , D -II
8. The interactive content in modern books may contain a two-dimensional code (2D pattern of dark rectangles) called QR codes. What is the full form of QR?
- (A) Quality reader
  - (B) Quality record
  - (C) Quality response
  - (D) Quality router
9. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R
- Assertion A : According to the Nyāya system, the argument "Sound is quality because it is visible is fallacious."
- Reason R :It commits the fallacy of Svarupāsiddha.
- In light of the above statements, choose the most appropriate answer from the options given below :
- (A) A is correct but R is not correct
  - (B) A is not correct but R is correct
  - (C) Both A and R are correct and R is the correct explanation of A
  - (D) Both A and R are correct but R is NOT the correct explanation of A
10. Scientists should put aside, their personal beliefs and biases and see the world as it “ really “ is. which one of the following philosophical positions supports the above statement ?
- (A) Constructivism
  - (B) inductivism
  - (C) positivism
  - (D) post-positivism
11. The target year for achieving the Sustainable Development Goals is
- (A) 2020
  - (B) 2025
  - (C) 2030



(D) 2035

12. Match List I with List II

List I	List II
Disaster management cycle components	Explanation
A. Prevention	I. Land -use Planning
B. Preparedness	II. Rescue
C. Recovery	III. Risk assessment
D. Response	IV. Construction

Choose the correct answer from the options given below:

(A) A -I , B -III , C -II , D -IV

(B) A -I , B -III , C -IV , D -II

(C) A -III , B -I , C -II , D -IV

(D) A -III , B -I , C -IV , D -II

13. Which of the following are the characteristics of a strong hypothesis?

A. Adequate for its purpose

B. Potentially testable

C. Presently testable

D. Better than its rival hypothesis

E. Unrelated to the theory

(A) A, B and C only

(B) A, C and D only

(C) B, D and E only

(D) C, D and E only

14. The angle made by the minute hand of a clock while moving from 4:40 pm to 6:10 pm is

(A)  $450^\circ$ (B)  $490^\circ$ (C)  $540^\circ$ (D)  $610^\circ$ 

15. Given below are two statements

Statement I : 'Twitter' is a microblogging site that is very restricted on the size of the post.

Statement II : 'Wiki' allows readers to edit posts, and entries in it are usually not in chronological order.

In light of the above statements, choose the correct answer from the options given below

(A) Both Statement I and Statement II are false

(B) Both Statement I and Statement II are true

(C) Statement I is false but Statement II is true

(D) Statement I is true but Statement II is false

16. A communication scenario in which two teachers are debating about the curriculum for the 21st century, is an instance of:

(A) Diagonal Communication

- (B) Group Communication
- (C) Interpersonal Communication
- (D) Lateral Communication

17. Which of the following pramanas are accepted by the Nyāya School?

- A. Pratyakṣa
- B. Anumāna
- C. Upamāna
- D. Śabda
- E. Arthāpatti

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, B and D only
- (C) A, B, C and D only
- (D) A, B, D and E only

18. Choice Based Credit System allows students to choose which of the following?

- A. Interdisciplinary
- B. Intradisciplinary
- C. Skill-oriented papers
- D. Open-book examinations
- E. Cataloguing services

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and D only
- (D) C, D and E only

19. which one of the following makes communication ineffective?

- (A) Ambiguity
- (B) Brevity
- (C) Clarity
- (D) Sincerity

20. Consider the following fractions:

- A.  $\frac{8}{9}$
- B.  $\frac{9}{11}$
- C.  $\frac{2}{3}$
- D.  $\frac{7}{9}$
- E.  $\frac{7}{11}$

Which of the following is the correct decreasing sequence?

- (A)  $A > B > C > E > D$
- (B)  $A > B > D > C > E$
- (C)  $B > A > C > E > D$
- (D)  $B > A > D > E > C$

21. Which one of the following is not a barrier variable in communication?

- (A) Climate
- (B) Culture
- (C) Curiosity
- (D) Eye-contact

22. Identify the correct sequence of the following storage devices in the descending order of their emergence.

- A. DVD
- B. CD-ROM
- C. Magnetic Tape
- D. Floppy Disk

Choose the correct answer from the options given below

- (A) A, B, C, D
- (B) A, B, D, C
- (C) A, C, D, B
- (D) B, A, D, C

23. Arrange the given objectives for cognitive domain in hierarchical order as the basis of the complexity of the task

- A. Application
- B. Evaluation
- C. Knowledge
- D. Analysis
- E. Synthesis

- (A) A, E, B, D, C
- (B) B, D, C, E, A
- (C) C, A, D, E, B
- (D) D, B, C, A, E

24. Match List I with List II

List I	List II
Functions of language	Example
A. Directive function	I. That's too bad
B. Expressive function	II. I apologise
C. Informative function	III. Close the window
D. Performative function	IV. New Delhi is the capital of India

Choose the correct answer from the options given below:

- (A) A -II , B -I , C -IV , D -III
- (B) A -II , B -III , C -I , D -IV
- (C) A -III , B -I , C -IV , D -II
- (D) A -III , B -IV , C -II , D -I

25. With respect to computer storage devices, which of the following is/are magnetic storage device(s)?

- A. CD-R
- B. DVD-RW

- C. Flash memory stick
- D. External Hard Drive

Choose the correct answer from the options given below:

- (A) A and B only
- (B) C and D only
- (C) C only
- (D) D only

26. Given below are two statements

Statement I: Working memory has a development trajectory- it increases throughout childhood and it decreases on ageing

Statement II: Working memory does not get adversely affected by ongoing stresses. In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

27. Given below are two statements, one is labelled as Assertion A and the Other is labelled as Reason R

Assertion A: Active participation of all students in a classroom is an indicator of the teachers' communication skills.

Reason R: Teachers should focus more on classroom management (as discipline matters) than instruction.

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

28. Given below are two statements

Statement I : Education for sustainable development has to be related to the process of taking decisions pertaining to economy, politics and natural environment

Statement II: Inviting senior citizens to schools and allowing them to speak on the environment of their childhood, may help in developing a concept of sustainable development

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

29. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: The complexity of the social context in which higher education exists in India, very likely, makes systemic reforms impossible

Reason R: The inadequacy of infrastructure and the attitude of the academic community to prefer status quo than taking risks, with experiments and innovation that require initiative and considerable efforts, are the principal impediments.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is correct but R is not correct
- (B) A is not correct but R is correct
- (C) Both A and R are correct and R is the correct explanation of A
- (D) Both A and R are correct but R is NOT the correct explanation of A

30. A vendor allows a discount of 16% to his customers and still gains 20%. The marked price of an item, which costs the vendor ₹ 11900, is

- (A) ₹ 14800
- (B) ₹ 15700
- (C) ₹ 16800
- (D) ₹ 17000

31. Match List I with List II

List I	List II
Memory devices	Memory Type
A. pen drive	I. Optical memory
B. Hard drive	II. Flash memory
C. CD ROM	III. Magnetic memory
D. RAM	IV. Volatile memory

Choose the correct answer from the options given below:

- (A) A -II , B -III , C -I , D -IV
- (B) A -II , B -III , C -IV , D -I
- (C) A -III , B -II , C -I , D -IV
- (D) A -IV , B -III , C -II , D -I

32. Identify the fallacy committed in the argument: "Since all humans are mortal, the human race must some day come to an end".

- (A) Fallacy of Amphiboly
- (B) Fallacy of Composition
- (C) Fallacy of Converse Accident
- (D) Fallacy of Division

33. Given below are two statements

Statement I: The product of all the digits on the dial of a telephone is 15840.

Statement II: At 10% interest rate, Rs 10000 will become Rs. 13310 in 3 years, when interest is compounded annually.

In light of the above statements, choose the correct answer from the options given below

- (A) Both statement I statement II are false.
- (B) Both statement I and statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but statement II is false

34. Given below are two statements

Statement I: Oxidative stress is an imbalance between accumulation of oxygen reactive substances and ability of body to destroy them.

Statement II: Oxidative stress is significantly lowered by the presence of oxidants.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

35. Match list I with list II

List I	List II
A. Grounded theory	I. Altheide
B. Critical discourse analysis	II. Foucault
C. Thematic analysis	III. Glaser and Strauss
D. Ethnographic content analysis	IV. Braun and Clarke

Choose the correct answer from the options given below:

- (A) A -I , B -II , C -IV , D -III
- (B) A -I , B -III , C -IV , D -II
- (C) A -II , B -IV , C -I , D -III
- (D) A -III , B -II , C -IV , D -I

36. What type of non-volatile memory would most likely store firmware, like a computer's BIOS?

- (A) EEPROM
- (B) Hard Disk
- (C) RAM
- (D) Tape Drive

37. According to the Indian Constitution, some fundamental rights of the citizens can be suspended during

- (A) Financial emergency
- (B) National disasters
- (C) National elections
- (D) National emergency

38. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: The decibel level for a given loudness may be different at different frequencies in the audible range.

Reason R: The human ear has a differential frequency response.

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

39. For reservation of the socially disadvantaged sections, the ceiling fixed by the Supreme Court of India is-

- (A) 28%
- (B) 40%
- (C) 50%
- (D) 55%

40. Identify the fallacy committed in the argument some spaniels are not good hunters.

All spaniels are gentle dogs.

Therefore, no gentle dogs are good hunters.

- (A) Fallacy of Exclusive Premises
- (B) Fallacy of Four Terms
- (C) Fallacy of Illicit Major
- (D) Fallacy of Illicit Minor

41. What comes next in the following sequence?

- (A) 10/108
- (B) 16/106
- (C) 16/162
- (D) 24/108

42. Which of the following is termed as the Magna Carta of English Education in India.

- (A) Elphinstone's minute
- (B) Macaulay's minute
- (C) Wardha education scheme
- (D) Wood's Dispatch

43. Given below are two statements

Statement I: A moderating variable is a second independent variable that is included because it is believed to have a significant contingent effect on the original independent variable and dependent variable relationship.

Statement II: An extraneous variable may conceivably affect a given relationship between the independent variable and the dependent variable.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

44. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Causal relationship between the independent variable and dependent variable cannot be established beyond doubt, if the researcher fails to control the conditions.

Reason R : A set of confounding variables are likely to influence the value of the dependent variable, if they are not controlled by the researcher.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is correct but R is not correct
- (B) A is not correct but R is correct
- (C) Both A and R are correct and R is the correct explanation of A
- (D) Both A and R are correct but R is NOT the correct explanation of A

45. What is gasohol?

- (A) A type of chemical for the decomposition of stubbles
- (B) A type of chemical used for chemical remediation of waste water
- (C) An instrument used to detect gas leakages in factories
- (D) Mixture of gasoline and ethanol

Read the given passage and answer the following question from question 46 to 50

Leaders in powerful positions once thought workers should be told what to do and how to do it. They believed strict control was needed for the organization to function efficiently and effectively fixed organizational hierarchies, structured jobs and work processes and detailed procedures, let everyone know that those at the top had power and those at the bottom had none. Today, the old views of the distribution of power are no longer valid. An emphasis on control serves to squelch motivation, innovation and morale, rather than produce desired results. Today's leaders share power rather than hoard it. They find ways to increase an organization's brain power by getting everyone involved and committed.

46. What is the theme of this passage?

- (A) Diminishing value of assets
- (B) Employee empowerment leads to improvement in production
- (C) How to get things done from workers
- (D) Shift from employee empowerment to control

47. "Today's leaders share power rather than hoard it", means

- (A) Leaders always discourage employee initiatives
- (B) Leaders distribute responsibilities among workers
- (C) Leaders prioritize production over worker satisfaction
- (D) Leaders work towards centralization of power

48. Which one of the following reflects the traditional conceptualization of leader?

- (A) Commands and controls employees
- (B) Creates opportunities for learning for employees
- (C) Shares power with employees
- (D) Uses employees' knowledge

49. An emphasis on control serves to enhance

- (A) Demotivation and maintain status quo
- (B) Motivation, innovation and morale



- (C) Productivity and profit
- (D) Sharing of knowledge

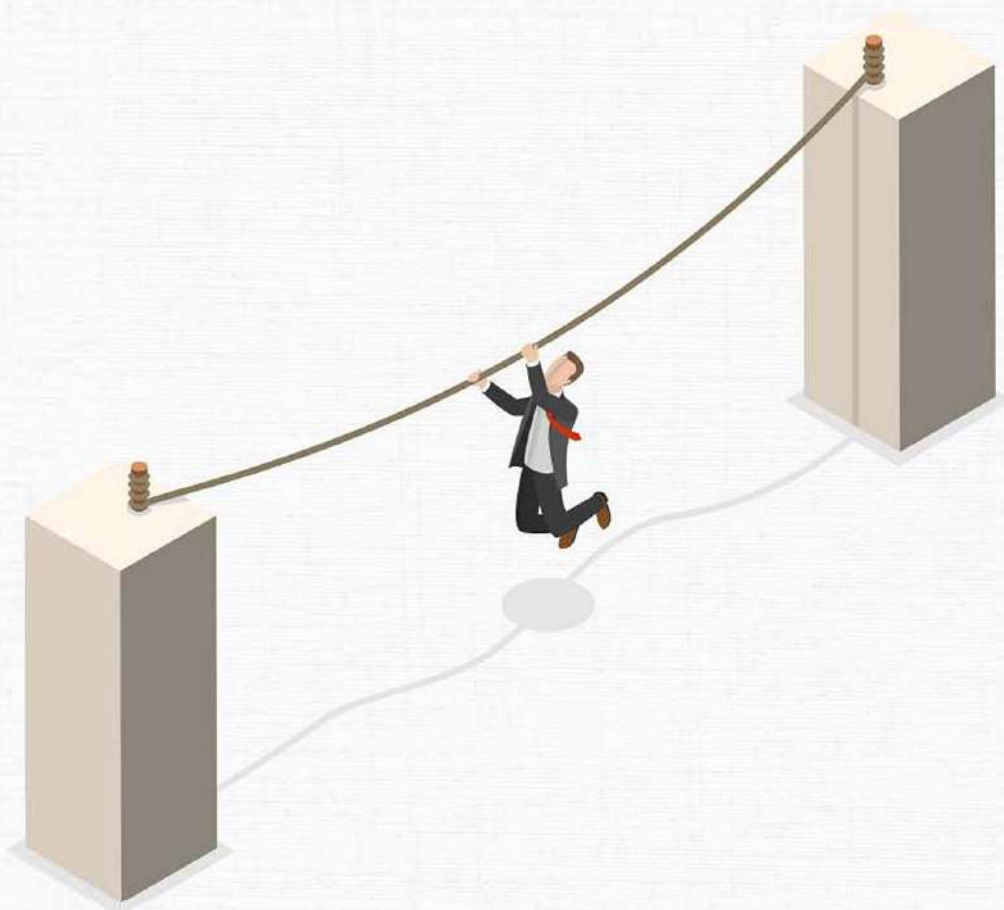
50. The example of declining assets (land, building, and machine) is given to
- (A) Emphasize the role of employee knowledge and skills
  - (B) Highlight organizational hierarchy
  - (C) Indicate command-and-control of leaders
  - (D) Suggest rising costs of assets

Aiifer

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	D	26	C
2	D	27	B
3	B	28	A
4	B	29	C
5	B	30	D
6	D	31	A
7	A	32	B
8	C	33	C
9	C	34	D
10	C	35	D
11	C	36	A
12	D	37	D
13	B	38	C
14	C	39	C
15	B	40	D
16	C	41	C
17	C	42	D
18	A	43	B
19	A	44	C
20	B	45	D
21	D	46	
22	B	47	B
23	C	48	A
24	C	49	A
25	D	50	----

People who avoid  
failure also avoid success  
**YOU CAN**



## 24-11-2021 LBS\_ FN

Study the given table and answer the questions that follow

Given below is a table in which the total number of employees in different departments of an organization along with the Male and Female ratio is given

Departments	Regular Employees			Contractual Employees		
	Total Number	RATIO		Total Number	RATIO	
		M	F		M	F
IT	250	1	1	240	2	1
Accounts	123	2	1	130	3	2
HR	90	3	2	30	2	1
Marketing	350	5	2	343	5	2
Production	304	5	3	351	5	4

- What is the respective ratio of the total number of female employees in the marketing department to the total number of female employees in the production department?  
(A) 11/13  
(B) 11/15  
(C) 12/13  
(D) 12/17
- Find out the average number of regular female employees in the organization  
(A) 78.50  
(B) 79.40  
(C) 81.25  
(D) 83.20
- Find out the difference between the number of contractual male employees and the number of contractual female employees in the organization.  
(A) 295  
(B) 298  
(C) 302  
(D) 307
- Which department has the highest number of female employees?  
(A) Accounts  
(B) IT  
(C) Marketing  
(D) Production
- Find out the difference between regular male employees and contractual male employees in the organization.  
(A) 2  
(B) 3

- (C) 4
- (D) 5

6. In electronic banking, ATM stands for

Options:-

- (A) Automated Teller Machine
- (B) Automated Transfer Money
- (C) Automatic Transfer Machine
- (D) Automatic Transfer Mode

7. According to Robbins et al, the sequence of communication functions is :

- A Control
- B Motivation
- C Emotional expression
- D Information

Choose the correct answer from the options given below

- (A) A, B, C, D
- (B) B, C, D, A
- (C) C, D, B, A
- (D) D, A, C, B

8. Arrange the following states in descending order in terms of GER (Gross Enrollment Ratio) in higher education

- A Tamil Nadu
- B Kerala
- C Uttarakhand
- D Sikkim
- E Himachal Pradesh

Choose the correct answer from the options given below

- (A) A, B, D, E, C
- (B) B, A, D, C, E
- (C) B, D, E, A, C
- (D) D, A, E, C, B

9. In respect of Biochemical Oxygen Demand (BOD), the permissible Indian standard for discharge of treated

effluents in Inland Surface Waters is

- (A) 150 mg/L
- (B) 300 mg/L
- (C) 50 mg/L
- (D) 60 mg/L

10. Which of the following statements are correct?

- A Laser printers use dry ink
- B Unlike dot matrix and inkjet printers, laser printers do not use ink when producing a document
- C Laser printers use the property of static electricity
- D Laser printers produce ozone gas and tiny toner particulates in the air

Choose the correct answer from the options given below

- (A) A and C only

- (B) A, B and D only  
 (C) A, C and D only  
 (D) B, C and D only

## 11. Match List I with List II

List I	List II
A Vyapti	I An immediate valid cognition of reality due to some kind of sense-object contact
B Anumana	II A source of knowledge on the basis of the likeness of things
C Pratyaksha	III Knowledge of an object due to previous knowledge of some sign or mark
D Upamana	IV The universal relation between the middle and major term of inference

- (A) A - I, B - IV, C - III, D - II  
 (B) A - II, B - III, C - I, D - IV  
 (C) A - III, B - II, C - I, D - IV  
 (D) A - IV, B - III, C - I, D - II

## 12. What comes next in this sequence?

1, 2, 2, 4, 8, 32, ?

- (A) 128  
 (B) 256  
 (C) 64  
 (D) 84

## 13. Match List I with List II

List I	List II
Ethical concepts	Source
A Categorical imperatives	I Aristotle
B Utilitarianism	II John Rawls
C Golden mean	III Immanuel Kant
D Theory of justice	IV John Stuart Mill

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D - IV

- (B) A - II, B - III, C - IV, D - I
- (C) A - III, B - IV, C - I, D - II
- (D) A - IV, B - I, C - II, D - III

14. Name the fallacy committed in the argument

"All household pets are domestic animals

No unicorns are domestic animals

Therefore, some unicorns are not household pets"

Choose the correct answer from the options given below

- (A) Affirmative conclusion from Negative Premises
- (B) Exclusive fallacy
- (C) Existential fallacy
- (D) Undistributed Middle

15. Which of the following are the characteristics of an adolescent?

A Increasing independence from adult control

B Rapid physiological changes

C Emotionally matured

D Acts rationally

E Increased focus on activities with peer groups

Choose the correct answer from the options given below

- (A) A and B only
- (B) A, B and C only
- (C) A, B and D only
- (D) A, B and E only

16. Among all recorded species in the world, India accounts for about

- (A) 10-12%
- (B) 15-18%
- (C) 20-25%
- (D) 7-8%

17. Given below are two statements

Statement I: DRAM consists of a number of transistors and capacitors

Statement II: DRAM needs to be constantly refreshed

In light of the above statements,

choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

18. If the difference between compound interest and simple interest on some principal amount at 20% for 3 years

is Rs 64, then the principal amount is –

- (A) Rs 375
- (B) Rs 495

(C) Rs 500

(D) Rs 550

19. Which of the following are the most influential factors of learning?

A Government policy

B Motivation

C Aptitude

D Interest

E Physical facilities

Choose the correct answer from the options given below:

(A) A, B and E only

(B) A, B and C only

(C) B, C and D only

(D) C, D and E only

20. Match List I with List II

List I	List II
A Sannidhi	I Mutual fitness and compatibility of the constituent words in a sentence
B Tātparya	II Expectancy between the words different in a sentences
C Yogyatā	III Propinquity between the different words in a sentence
D Akankṣā	IV Meaning intended by the sentence

Choose the correct answer from the options given below:

(A) A - II, B - I, C - III, D - IV

(B) A - II, B - I, C - IV, D - III

(C) A - III, B - IV, C - I, D - II

(D) A - IV, B - II, C - III, D - I,

21. Given below are two statements

Statement I: The angle between the minute hand and the hour hand of a clock when the clock shows 3 hours 20

minutes is  $25^\circ$

Statement II: Between 4 and 5, the minute hand and hour hand of a clock will be coincident at  $21\frac{9}{11}$  minutes

past 4

In light of the above statements,

choose the correct answer from the options given below

(A) Both Statement I and Statement II are false

(B) Both Statement I and Statement II are true



- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

22. Which of the following statements are correct?

- A. If the cost price of an item is Rs56 and the gain percentage is 20%, the selling price of the item is Rs762
- B. If the cost price of an item is Rs80 and the loss percentage is 15%, the selling price of the item is Rs68
- C. If an item purchased in Rs5 is sold for Rs6, the profit is 25%

Choose the correct answer from the options given below

- (A) A and B only
- (B) B and C only
- (C) B only
- (D) C only

23. Which of the following are the major recommendations of the NEP-2020 related to higher education?

- A To increase GER from 263% to 50% by 2035
- B Establishment of world-class universities
- C 'Light but tight' regulation by a single regulator for higher education
- D Promoting research in science and technology
- E Opening of 1500 more universities

Choose the correct answer from the options given below:

- (A) A and B only
- (B) A and C only
- (C) B and D only
- (D) D and E only

24. According to Wimmer and Dominick, the sequential steps in content analysis are:

- A Defining the population
- B Selection of appropriate sample
- C Identifying the unit of analysis and construction of categories
- D Code, analyse and draw inferences from the collected data
- E Formulation of the research question or hypothesis by the researcher

Choose the correct answer from the options given below

- (A) A, B, C, D, E,
- (B) B, C, D, E, A,
- (C) C, D, E, A, B,
- (D) E, A, B, C, D,

25. Which of the following are characteristics of quantitative research?

- A Questions are open-ended
- B Identified variables are measured
- C Questions are standardized
- D If the sample size is large, the findings can be easily generalised
- E It is difficult to fix the level of measurement

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and E only
- (C) B, C and D only
- (D) C, D and E only

26. In which of the following forms of knowledge there cannot be any predication of the object in terms of the subject-predicate relation?

- (A) Nirvikalpaka Pratyaksha
- (B) Sāmānyalakṣaṇa
- (C) Savikalpaka Pratyaksha
- (D) Yogaja

27. Nalanda was established in

- (A) 2nd century
- (B) 3rd century
- (C) 4th century
- (D) 5th century

28. Consider 'A' proposition as 'True' and 'False' respectively, in a square of the opposition of propositions, then which one of the following is correct?

- (A) 'E' is Undetermined and 'O' is False
- (B) 'I' is True and 'E' is False
- (C) 'O' is True and 'I' is False
- (D) 'O' is Undetermined and 'I' is False

29. If seven persons can build a house in 30 days, how long will it take three persons to build the same house, provided that they all work at the same rate?

- (A) 100 days/100
- (B) 210 days/210
- (C) 30 days/30
- (D) 70 days/70

30. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Choice-based Credit System (CBCS) is adopted out of the need for flexibility in the education

system so that students, depending upon their interests and aims, can choose interdisciplinary, intra-disciplinary and skill-based courses

Reason R: The majority of Indian higher education institutions have been following a marks or percentage-based

evaluation system, which obstructs the flexibility for the students to study the subjects/courses of their choice

and their mobility to different institutions

In light of the above statements,

choose the most appropriate answer from the options given below

- (A) A is correct but R is not correct
- (B) A is not correct but R is correct
- (C) Both A and R are correct and R is the correct explanation of A
- (D) Both A and R are correct but R is NOT the correct explanation of A

31. Which of the following are the traits of a competent communicator?

- A Mindfulness
- B Receptive to new information
- C Thinking before acting
- D Should always go by the first impression
- E Be passive to issues around

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and D only
- (D) C, D and E only

32. Given below are two statements

Statement I: Researchers in history are myth makers

Statement II: Various movements in social history- new history - have provided new narratives for history researchers

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

33. Which of the following influence non-verbal communication?

- A Avoidance of signals
- B Invisible incongruence
- C Culture
- D Geographical location
- E Contextuality

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and D only
- (D) C, D and E only

34. Protection from Ultraviolet Radiations as envisaged under the Montreal Protocol also contributes to following SDGs

- (A) SDGs 10, 16, 17
- (B) SDGs 3, 11, 14, 15
- (C) SDGs 4, 5, 11, 17
- (D) SDGs 8, 10, 12

35. Institutions Offering Courses Through SWAYAM Level of Education

List I	List II
A. NCERT	I Post school education
B. IGNOU	II Undergraduate education
C. CEC	III Postgraduate education
D. UGC	IV School Education

Choose the correct answer from the options given below:

- (A) A - IV, B - I, C - II, D - III,
- (B) A - IV, B - I, C - III, D - II,
- (C) A - IV, B - II, C - III, D - I,
- (D) A - IV, B - III, C - I, D - II,

36. In the transactional type of communication, the elements are:

- (A) Inactive
- (B) Independent
- (C) Inter-dependent
- (D) Neutral

37. In a learner-centric approach, a teacher should:

- (A) clarify concepts by citing examples
- (B) demonstrate inside the classroom
- (C) explain concepts by using adequate support materials
- (D) facilitate student learning

38. According to Niti Ayog's SDG Index (2019-20), which among the following states is the best performer in the attainment of SDG-5 (Gender Equity)?

- (A) Goa
- (B) Himachal Pradesh
- (C) Kerala
- (D) Sikkim

39. Which type of power plants uses the least land per unit of GWh energy production?

- (A) Coal
- (B) Geothermal
- (C) Solar
- (D) Wind

40. Which of the following is a disadvantage of laptop computers in comparison to desktop computers?

- (A) It has lower power consumption
- (B) It has no trailing wires

- (C) It is easier to break or steal
- (D) It is lightweight and self-contained

41. 'Deemed to be University' is established by
- (A) A notification of the Central Government on advice of the UGC
  - (B) A notification of the UGC on the advice of the State Government
  - (C) An act of the Parliament
  - (D) An act of the state legislative assembly
42. A spreadsheet is
- (A) Four-dimensional table or grid
  - (B) One-dimensional table or grid
  - (C) Three-dimensional table or grid
  - (D) Two-dimensional table or grid
43. Which of the following is the highest level of teaching?
- (A) Memory
  - (B) Reflective
  - (C) Thinking
  - (D) Understanding
44. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R
- Assertion A: Communication must include the transfer and understanding of messages and their meanings
- Reason R: Achieving perfect communication is a technical possibility
- In light of the above statements, choose the correct answer from the options given below
- (A) A is false but R is true
  - (B) A is true but R is false
  - (C) Both A and R are true and R is the correct explanation of A
  - (D) Both A and R are true but R is NOT the correct explanation of A
45. Independent verification of a research effort is known as
- (A) Enquiry
  - (B) Investigation
  - (C) Probe
  - (D) Replication

Please read the passage and answer the following questions

The concept of emotional labour emerged from studies of service jobs. But emotional labour is relevant to almost every job. At the least, your managers expect you to be courteous, not hostile in your interactions with co-workers. The true challenge arises when employees have to project one emotion while feeling another. This disparity is emotional dissonance, and it can take a heavy toll. Bottled up feelings of frustration, anger, and resentment can eventually lead to emotional exhaustion and burn out. Emotional dissonance is like cognitive dissonance, except that emotional dissonance concerns feelings rather than thinking. It is from the increasing importance of emotional labour as a key component of effective job performance that we have come to understand the relevance of emotion in every field. Emotional labour creates dilemmas for employees. There are people with whom you have to work that you just plain do not like.

Maybe you consider their personality abrasive Maybe you know they have said negative things about you behind your back Regardless, your job requires you to interact with these people on a regular basis So you are forced to feign friendliness It can help you, on the job, especially if you separate emotions into felt or displayed emotions Felt emotions are an individual's actual emotions In contrast, displayed emotions are those that the organisation requires workers to show and considers appropriate in a given job They are not innate; they are learned Similarly, most of us know we are expected to act sad at funerals, regardless of whether we consider the person's death a loss and to appear happy at weddings even if we don't feel like celebrating Research suggests that at workplaces, it is expected that we should typically express positive emotions like happiness and excitement and suppress negative emotions like fear; anger; disgust and contempt

46. Within an organization, emotional dissonance affects
- (A) Cognitive consonance
  - (B) Constructive thinking
  - (C) Effective job performance
  - (D) Solutions to labour issues
47. According to the passage, effective emotional labour management involves :
- (A) Acceptance of emotional dissonance
  - (B) Display of friendly emotions
  - (C) Free expression of feelings of frustration
  - (D) Sidetracking the learned emotions
48. In a workplace environment, labour managers should give preference to:
- (A) Displayed emotions
  - (B) Expressions of frustrations
  - (C) Felt emotions
  - (D) Negative emotions
49. The basic principle of emotional labour management is:
- (A) Be less hostile to other employees
  - (B) Be polite to co-workers
  - (C) Do not show your frustrations
  - (D) Entertain only limited interaction within the organization
50. Which of the following feelings one should feign at a workplace?
- A Fear
  - B Excitement
  - C Contempt
  - D Happiness

Choose the correct answer from the options given below

- (A) A and B only
- (B) B and C only
- (C) B and D only
- (D) C and D only

### **ANSWER KEY**

<b>Q. No</b>	<b>Ans</b>	<b>Q. No</b>	<b>Ans</b>
1	B	26	A
2	D	27	D
3	C	28	B
4	D	29	D
5	B	30	C
6	A	31	A
7	A	32	A
8	D	33	D
9	B	34	B
10	C	35	A
11	D	36	C
12	B	37	D
13	C	38	B
14	C	39	B
15	D	40	C
16	D	41	A
17	B	42	D
18	C	43	B
19	C	44	B
20	C	45	D
21	C	46	C
22	C	47	B
23	B	48	A
24	D	49	B
25	C	50	C

People who avoid  
failure also avoid success  
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## 03-12-2021 MLM\_ FN

The following Table-I shows the Sales and Earnings of ABC Corporation in the last eight years from 2013-2020. and Table-II shows the percentage of Sales in four different categories in the year 2020. Based on the data in the tables. answer the questions:

Table – I: Year-wise Sales and Earnings

Year	Sales (in Rs. Billion)	Earnings (in Rs. Million)
2013	3	500
2014	6	900
2015	8	200
2016	7	400
2017	5	700
2018	9	800
2019	8	700
2020	10	600

Table – II: Category-wise sales in the year 2020

Category	Percentage (%) of Sales
Computers	25%
TVs	20%
Smartphones	40%
Miscellaneous	15%

- What is the sum total (in ₹ millions) of the earnings of ABC Corporation of the period 2013 – 2019?  
(A) 4800  
(B) 4200  
(C) 4000  
(D) 5000
- Which of the following statements can be deduced from the data given in the Tables I and II?  
(A) Sales of Smartphones in the year 2020 exceeded total sales in the year 2013.  
(B) Earnings for the year in which earnings were highest were more than the sales for the year in which sales were lowest.  
(C) If in the year 2020. the sales of Smartphones had been 10% less. and the sale of Computers had been 10% higher. then the sales of Smartphones would have been less than the sales of Computers.

Choose the correct answer from the options given below:

- (A) (A) only (C) (A) and (C) only  
(B) (A) and (B) only  
(C) (A) and (C) only

(D) (C) only

3. What was the ratio of earnings to sales in 2015

- (A) 25: 1
- (B) 1: 4
- (C) 1: 25
- (D) 1: 40

4. For which year was the percentage (%) increase in earnings from the previous year highest?

- (A) 2014
- (B) 2015
- (C) 2016
- (D) 2017

5. What is the average (in ₹ billions) of the sales of ABC Corporation for the period 2013 – 2020?

- (A) 5.5
- (B) 6.0
- (C) 7.0
- (D) 8.0

6. Which of the following options are true regarding inference with reference to classical Indian system of logic?

- (A) It is deductive
- (B) It is inductive
- (C) It has to be formally valid
- (D) It has to be materially true

Choose the correct answer from the options given below:

- (A) (A), (B) and (D) only
- (B) (A), (B) and (C) only
- (C) (A), (C) and (D) only
- (D) (A), (B), (C) and (D) only

7. In the series

1,3,6,10, .....

What is the next term?

- (A) 12
- (B) 15
- (C) 18
- (D) 20

8. Match List I with List II

List I – Research Steps	List II – Characteristics
(A) Research problem definition	(I) Appropriateness of techniques and their application
(B) Formulation of research hypothesis	(II) Development of a conceptual framework which is in accord with hypothesis of research
(C) Design of research	(III) Defining the variables to be related in unambiguous terms
(D) Data Analysis	(IV) Academic and social value of the research question to be weighed

Choose the correct answer from the options given below:

- (A) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (B) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (C) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (D) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

9. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): Actual settings are the direct source of data and the researcher is the key instrument in qualitative research.

Reasons (R): The purpose underlying qualitative researches is relatively more directed at depiction of reality rather than arriving at context free generalizations.

In the light. of the above statements. choose the most. appropriate answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

10. By the year 2030, Sustainable Development Goal 7 aims at enhancing the global rate of improvement in energy by a factor of

- (A) Two
- (B) Three
- (C) Four
- (D) Five

11. With respect to computers. which of the following are random access storage devices?

- (A) Magnetic Tape
- (B) Hard Disk
- (C) Pen Drive
- (D) CDROM

Choose the correct answer from the options given below:

- (A) (A), (B) and (C) only
- (B) (A), (C), and (D) only
- (C) (B), (C) and (D) only
- (D) (A), (B) and (D) only

12. Which of the following is an example of qualitative research?

- (A) Experimental Research
- (B) Ex post facto research
- (C) Descriptive survey research
- (D) Grounded theory research

13. Match List I with List II

List I - Computer Terms	List II - Description
(A) Magnetic Tape	(I) Used in digital cameras photo printers and cell phones
(B) Memory Card	(II) Uses laser beam technology to read or write data
(C) Hard Disk	(III) Used for data archival purposes but must be accessed sequentially
(D) DVD	(IV) A set of metal disks mounted on a spindle

Choose the correct answer from the options given below:

- (A) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (B) (A)-(IV), (B)-(I), (C)-(III), (D)-(II)
- (C) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (D) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)

14. Which of the following level of teaching lays stress on critical sifting of ideas at the highest cognitive level?

- (A) Memory level
- (B) Understanding level
- (C) Reflective level
- (D) Autonomous development level

15. As a result of wood's despatch, which of the following Universities were established in 1857?

- (A) Calcutta, Bombay and Madras
- (B) Bombay, Madras and Delhi
- (C) Delhi, Bombay and Calcutta
- (D) Madras, Calcutta and Delhi

16. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R.):

Assertion (A): Agenda building is a collective communication process in which media, government and the citizenry reciprocally influence one another. Reasons (R): Agenda building presumes cognitive effects and inactive audience with less societal-level effects.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

17. According to NEP-20 Secondary Education Comprises of classes(Cancelled Question)

- (A) VIII – X
- (B) X - XII
- (C) IX - X
- (D) IX – XI

18. When a computer is switched on, the BIOS is loaded from:

- (A) Hard Disk
- (B) RAM
- (C) ROM
- (D) CD-ROM

19. Identify the correct order of the following computer storage capacities ranked from largest to smallest capacity.

- (A) 100 GBytes
- (B) 10 000 000 000 Bytes
- (C) 1 TBytes
- (D) 1 000 000 KBytes

Choose the correct answer from the options given below:

- (A) (C), (A), (D), (B)
- (B) (C), (A), (B), (D)
- (C) (A), (C), (D), (B)
- (D) (A), (C), (B), (D)

20. What will be the resultant of two noise levels of 81 dB and 90 dB generated by two independent sources?

- (A) ~96 dB
- (B) ~91 dB
- (C) ~98 dB
- (D) ~118 dB

21. Given below are the two statements:

Statement I: Solar flat plat collectors essentially work on the principle of Green House Effect. Statement II: Black absorber plat radiates infrared radiations.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

22. Identify the correct sequence in decreasing order of percentage of total world's water in the following locations:

- (A) Atmosphere
- (B) Rivers and streams
- (C) Ground water
- (D) Lakes (Fresh water)
- (E) Ice caps and Glaciers

Choose the correct answer from the options given below:

- (A) (E), (C), (B), (D), (A)
- (B) (E), (B), (C), (D), (A)
- (C) (E), (D), (C), (B), (A)
- (D) (E), (C), (D), (A), (B)

23. Match List I with List II

List I - Helping behaviour of effective teaching	List II – Description
(A) Using student ideas of contributions	(I) Warm and nurturing relationship with learners
(B) Structuring	(II) Teacher statements to encourage students to elaborate on an answer
(C) Probing	(III) Teacher comments for the purpose of organizing what is to come
(D) Teacher affect	(IV) Taking a student's response and repeating or applying it

Choose the correct answer from the options given below:

- (A) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (B) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (C) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (D) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

24. Which of the following are the highest taxonomic categories in the cognitive, affective and psychomotor domains of learning?

- (A) Analysis
- (B) Evaluation
- (C) Awareness
- (D) Characterization
- (E) Naturalization

Choose the correct answer from the options given below:

- (A) (A), (B) and (C) only
- (B) (B), (C) and (D) only
- (C) (B), (D) and (E) only
- (D) (C), (D) and (E) only

25. Given below are two statements:

Statement I: Scientific research is systematic, controlled, empirical and critical investigation of hypothetical propositions.

Statement II: Population of research need not be defined in qualitative and quantitative researches.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

26. Given below are two statements:

Statement I: Search Engines are websites that help a user to search for information on WWW.

Statement II: For any search term, Search Engines provide the exact same results to all the users.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

27. Identify from the following those values which are called -Sattvika Values"

- (A) Compassion
- (B) Jealousy
- (C) Respect
- (D) Falsehood

Choose the most appropriate answer from the options given below:

- (A) (A) and (B) only
- (B) (B) and (C) only
- (C) (C) and (D) only
- (D) (A) and (C) only

28. Given below are two statements:

Statement I: The art of Mass Communication is much more simple than of face to face communication or any type of communication.

Statement II: Each of us uses 3S (Sight, Sound and Smell) and 2T (Touch and Taste) when we communicate with others.

In the light. of the above statements. choose the most appropriate answer from the options given below:

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement. II is correct

29. Given below are two statements:

Statement I: Sesavata is the inference of what remains (sera) by elimination of the irrelevant.

Statement II: Sesavata inference corresponds to the method of residues in western inductive logic.

In the light of the above statements. choose the most appropriate answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

30. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): The Naiyayikas did not give separate treatment of the inductive methods, as the western logicians have done.

Reasons (R): According to Nyaya school universal propositions are obtained from perception itself by one of the forms of extra-ordinary perception.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R.) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true



31. Prakrit languages have similarities and differences with Sanskrit in many ways. Prakrit languages when formalized for literary use their variation from conventional vedic languages was  
(A) Pali  
(B) Ardhamagadhi  
(C) Apabhramsha  
(D) Hindi
32. The power which comes through connectedness of one's words matching one's feelings, body and facial expression in communication process is known as:  
(A) Conformity  
(B) Congruence  
(C) Collaboration  
(D) Control
33. The owner of mobile phone charges his customer 25% more than the cost price. If a customer paid 8,000/- for a mobile phone, then what was the cost price of the mobile?  
(A) Rs. 5600  
(B) Rs. 6000  
(C) Rs. 6400  
(D) Rs. 7000

34. Match List I with List II

List I	List II
(A) Kyoto Protocol	(I) Clean and Affordable Energy
(B) Montreal Protocol	(II) Clean Development Mechanism
(C) Paris Agreement	(III) Nationally Determined Contribution
(D) International Solar Alliance	(IV) Phase out of chlorinated compounds

Choose the correct answer from the options given below:

- (A) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)  
(B) (A)-(I), (B)-(III), (C)-(IV), (D)-(II)  
(C) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)  
(D) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
35. Given below are two statements:  
Statement I: In norm-referenced testing of students, test data helps us determine a student's place or rank.  
Statement II: In Criterion-referenced testing, the test data tells us about a student's level of proficiency.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true

- (B) Both Statement. I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

36. The Daily News carried an article this morning about some local teenagers who were arrested on charges of drug possession. Teenagers these days are nothing but a bunch of junkies... Which fallacy is committed in the above statement?
- (A) Red Herring
  - (B) Strawman
  - (C) Argument against the person (ad hominem)
  - (D) Hasty Generalization

37. Feedback reflects the reactions of the audience when:
- (A) One knows the effects of communication.
  - (B) One knows the quality of content of the message.
  - (C) One knows the future prospect of the object of communication.
  - (D) One knows the financial implications of the communication.

Choose the most appropriate answer from the options given below:

- (A) (A), (B), (D) only
- (C) (A), (C), (D) only
- (B) (B), (D), (C) only
- (D) (A), (B), (C) only

38. In the letter series  
B, H, R, F, .....  
What is the next letter?
- (A) L
  - (B) Z
  - (C) P
  - (D) X

39. Identify from the list below the threats to internal validity of research.
- (A) Interaction of selection and independent variable (X)
  - (B) Statistical regression
  - (C) Interaction of pretesting and X
  - (D) Differential selection of subjects
  - (E) Experimental mortality

Choose the correct answer from the options given below:

- (A) (B), (D) and (E) only
- (C) (B), (C) and (D) only
- (B) (A), (B) and (C) only
- (D) (C), (D) and (E) only

40. The collection of all the objects to which a term may correctly be applied is called:

- (A) The intension of that term
- (B) Connotation of that term
- (C) The extension of that term
- (D) Denotation of that term

Choose the correct answer from the options given below:

- (A) (A) and (B) only
- (C) (A) and (D) only
- (B) (B) and (C) only
- (D) (C) and (D) only

41. Given the relationship between variables Y and X:  $Y = X^2$ ; if X changes by 6% What is the percentage change in Y?

- (A) ~36%
- (B) ~12%
- (C) ~8%
- (D) ~6%

42. A man travels in a car from point A to point B and covers a distance of 120 km. During the first 40 km, the speed of the car is 50 km/hr and the rest of journey the speed of his car is 60 km/hr. What is the average speed of his car from point A to Point B?

- (A) 55 km/hr
- (B) 54.25 km/hr
- (C) 56.25 km/hr
- (D) 58.25 km/hr

43. According to NEP-20 the primary activities of the NRF' will be to

- (A) Fund competitive peer reviewed grant proposals of all types across all disciplines.
- (B) Open new institutions of research and innovation.
- (C) Act as a liason between researchers and relevant branches of government as well as industry.
- (D) Include research in curriculum at school level.

Choose the most appropriate answer from the options given below:

- (A) (A) and (B) only
- (B) (A) and (C) only
- (C) (B) and (C) only
- (D) (C) and (D) only

44. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): Modern and ICT based teaching support requires some technical knowledge on the part of the teacher and learner.

Reasons (R): Both teachers and learners have to be provided orientation in use of the various support tools and techniques in an intelligent way.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

45. In describing elements of communication, a person or an event which provides verbal or non-verbal use to which someone can respond is known as,

- (A) Message
- (B) Source
- (C) Channel
- (D) Communication context

Read the passage carefully and answer the question that follow

The need for continuing and reinforcing value oriented curriculum at the post graduate level and level of professional studies may be considered even more important. Most of the students trained at these levels are likely to become leaders of business and industry. technocrats. leaders of thought. teachers and educationists. research workers. professionals. political leaders and social workers etc. besides playing their normal roles as citizens and family members like all other people. It appears that most of them at the time of leaving the college after 3-6 years of study. may have a poor idea of the values of freedom and human dignity. the value of food. security and health care for millions of poor and disadvantaged people. the importance of correct public policies for managing societies and solving several problems. the importance of proper human relations and personal life styles, etc. A good number of them. however are now getting opportunities to acquire modern scientific and technical knowledge of high standards particularly in some of our institutions of excellence. comparable to the best institutions in the developed countries. But the problem of inadequate access to this kind of modern knowledge for the poor and disadvantaged groups in our society constitutes a serious social and moral issue.

Curricular reform and reconstruction on proper lines should be the active concern of educationists and educational planners. because as pointed out in national policy document 1986, it can be a forceful tool for the cultivation of social and moral values. In our culturally plural societies education should foster universal and eternal values, oriented towards the unity and integration of our people. Such value education should eliminate obscurantism religious fanaticism. violence superstition and fatalism.

46. In order to cultivate values, the higher education system should concentrate on

- (A) Plugging pedagogical deficiencies
- (B) Integrating technology
- (C) Integrating technology with pedagogy
- (D) Curricular reforms

47. The higher education system as of now emphasis on

- (A) Utilitarian values
- (B) Human values

- (C) Social and political values
- (D) Spiritual values

48. Value oriented curriculum at professional studies level is important

- (A) To propagate the values Further
- (B) To have a glimpse of the issues of the poor and disadvantaged
- (C) To balance other pedagogy, related deficiencies
- (D) To train students as efficient agents

49. The most suitable Caption for the passage may be:

- (A) Enforcing values in education
- (B) Importance of values
- (C) Value implementation
- (D) Value basis for tertiary education and society

50. In higher education, in the context of promoting strong value orientation, which of the following statement holds true?

- (A) Provide opportunities to students to acquire scientific knowledge of high standards.
- (B) A Policy for development of values may be prepared.
- (C) Offer courses related to inter disciplinary contemporary socio-economic problems.
- (D) The universities should aim to enrich technological dimensions.

Aiifer

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	C
2	C	27	D
3	D	28	D
4	C	29	A
5	C	30	A
6	D	31	C
7	B	32	B
8	B	33	C
9	A	34	A
10	A	35	A
11	C	36	D
12	D	37	D
13	A	38	D
14	C	39	A
15	A	40	D
16	C	41	B
17	-----	42	C
18	C	43	B
19	B	44	A
20	B	45	B
21	A	46	D
22	D	47	A
23	A	48	D
24	C	49	D
25	C	50	C



You are not a mess,  
You are brave for trying  
**DO IT NOW**

20-11-2021 MASC\_ FN

Read the passage carefully and answer the question that follow

India is one of the world's largest repositories of music, dance, theatre, folk traditions, songs, performing arts, rites and rituals, paintings and writings that are known, collectively as "Intangible Cultural Heritage". India's cultural heritage is a source of inspiration to people everywhere. India's century old cultural exchanges with South East Asia continue to inspire people-to-people relationships. There is a visible impact of the Indian heritage on the scriptures and the way of life of the people of the Mekong region. There is deep conviction about the Buddhist traits of humility, gentleness, justice and charity. There are many similarities in languages of the region and Sanskrit. The Panchatantra and Jataka tales are narrated with great enthusiasm and are part of folklore. The Ramayan culture is visible all across South East Asia.

The common culture binding India with South East Asian Countries apart from Buddhism is the great epic of Ramayana. Angkor Wat has the great Ramayana Panel depicting the battle between Vanaras and the Asuras.

SAARC remains an important component of India's cultural diplomacy representing multilateralism and people to people contacts. People to people exchanges are being promoted amongst the BRICS countries with the BRICS Culture Ministers meetings laying down the road map for collaboration. Cultural exchanges amongst the Member Nations of the Shanghai Cooperation Organisation is also being actively promoted in the fields of tourism, education, science, archeology, music, dance and yoga.

India's soft power status varies with the regions. In South East Asia, Buddhism links India to the people of the region.

In the Indian Ocean countries, Project Mausam (the monsoon) linked the people to common traits. There are several new links that have emerged – cricket ties with Australia and South Africa represented by Cricket connects exhibitions. The theoretical framework for the formulation of India's soft power status is best represented in the Government's new ideas – Digital India, Business Promotion, Yoga Diplomacy.

UNESCO has also focused on building Peace through Cultural Diplomacy. The influence of Mahatma Gandhi, Nelson Mandela and Martin Luther King Jr around the world, and the popularity of their ideas of harmonious co-existence amongst various layers of society is considerable.

1. The common thread binding India and South East Asian Countries is/are
  - A. Buddhist tenets
  - B. Yoga
  - C. Cricket
  - D. Sanskrit

Choose the correct answer from the options given below:

- (A) (A) only
- (B) (A), (B), (C) and (D) only
- (C) (A) and (D) only



(D) (A), (B), (D) and (E) only

2. Which of the following is not reflective of India's soft power status?

- (A) Digital India
- (B) Skill India
- (C) Business Promotion
- (D) Yoga Diplomacy

3. The passage highlights

- (A) The emergence of India as a super power
- (B) The role of culture for peace and harmonious relations with other countries
- (C) India's cultural hegemony
- (D) India's relations with BRICS countries

4. India's cultural diplomacy is centered around

- (A) Ramayan
- (B) Multilateral engagements
- (C) Business Promotion
- (D) People to people contacts

Choose the correct answer from the options given below :

- (A) (A) and (D) only
- (B) (A), (C) and (D) only
- (C) (B), (C) and (D) only
- (D) (B) and (D) only

5. Cultural exchanges amongst the member nations of the Shanghai Cooperation Organisation are in the following fields:

- (A) Archaeology
- (B) Folklore
- (C) Tourism
- (D) Yoga
- (E) Education

Choose the correct answer from the options given below:

- (A) (A), (C), (D) and (E) only
- (B) (A), (B), (C) and (E) only
- (C) (A), (B) and (E) only
- (D) (B), (C), (D) and (E) only

6. Consider the following table that shows the percentage (%) distribution of the number of the personal computers (PCs) sold by a dealer from July to December -2019 and the ratio between the number of the PCs sold of HP and DELL companies during the same six months. total number of PCs sold in all this six months put together is 45000. Based on the data contained on the table, answer the question

Month-wise Distribution of sale of PCs

Month	Sale of PCs	
	Percentage(%) distribution	Ratio of HP to DELL
July	17%	8:7
August	22%	4:5
September	25%	3:2
October	8%	7:5
November	12%	7:8
December	16%	7:9

6. What is the total number of PCs sold by Company DELL during August and September together?  
 (A) 10000  
 (B) 15000  
 (C) 10500  
 (D) 9500
7. If 35% of the PCs sold by Company HP during November were sold at a discount, then how many PCs of Company HP during that month were sold without a discount?  
 (A) 882  
 (B) 1635  
 (C) 1638  
 (D) 885
8. What is the ratio of the number of PCs sold of Company DELL during July to those sold during December of the same company?  
 (A) 119 : 145  
 (B) 116 : 135  
 (C) 119 : 135  
 (D) 119 : 130
9. The number of PCs sold of Company HP during July is approximately what percent (%) of the number of PCs sold of Company HP during December?  
 (A) 110%  
 (B) 140%  
 (C) 150%  
 (D) 130%
10. If the dealer earned a profit of Rs. 433 on each PC sold of Company DELL during October, then what was his total profit earned on the PCs of that company during the same month?  
 (A) 6,49,900  
 (B) 6,45,900  
 (C) 6,49,400  
 (D) 6,49,500
11. Match List I with List II :

List I	List II
(Types of Communication)	(Main features)

(A) Downward Communication	(I) Grows primarily to meet organizational/member's need for communication
(B) Upward Communication	(II) It forms a useful link in decision making for task coordination
(C) Horizontal Communication	(III) Provides management with feedback about current issues and problems
(D) Grapevine Communication	(IV) It is the most common communication system in an organization

Choose the correct answer from the options given below :

- (A) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (B) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- (C) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (D) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

12. Which country is in the process of setting up the largest integrated solar- wind energy park of 30 GW capacity?
- (A) China
  - (B) India
  - (C) Australia
  - (D) Saudi Arabia
13. The average monthly income of P and Q is Rs. 5,050/-. The average monthly income of Q and R is Rs. 6,250/- and that of P and R is Rs. 5,200. What will be the monthly income of P?
- (A) Rs. 3,000/-
  - (B) Rs. 3,500/-
  - (C) Rs. 4,000/-
  - (D) Rs. 4,500/-
14. Two propositions are contradictories if :
- (A) One is denial or negation of the other
  - (B) If they can both be true but cannot both be false
  - (C) If they have different subject and predicate term and differ from each other in both quality and quantity
  - (D) If they have the same subject and predicate terms but differ from each other only in quantity but not in quality
15. Given below are two statements : One is labeled as Assertion A and the other is labeled as Reason R.
- Assertion (A) : There has to be an integrated approach to achieve the targets of Sustainable Development Goals (SDGs).
- Reason (R) : Many of the SDGs are interconnected.
- In the light of the above statements, Choose the most appropriate answer from the options given below :

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

16. NITI Aayog is

- (A) National Institution for Transforming India
- (B) National Institute of Technology Integration
- (C) National Institute of Technological Innovation
- (D) National Institute of Transformation and Innovation

17. Given below are two statements :

Statement I: Noise Pollution has an adverse impact on hearing ability as well as psychological well being of a person.

Statement II : Human perception of noise levels is linear.

In the light of the above statements, Choose the correct answer from the options given below :

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.

18. "All radically egalitarian societies are societies that do not preserve individual liberties". Which of the following statements is true with reference to the above statement?

- (A) "No radically egalitarian societies are societies that preserve individual liberties" is obverse of the given statement and it is logically equivalent.
- (B) "No radically egalitarian societies are societies that preserve individual liberties" is obverse of the given statement and it is not logically equivalent.
- (C) "Some radically egalitarian societies are societies that preserve individual liberties" is converse of the given statement and it is logically equivalent.
- (D) "Some radically egalitarian societies are not societies that preserve individual liberties" is converse of the given statement and it is logically equivalent.

19. If the cost price is 25% of selling price, then what is the profit percentage?

- (A) 100
- (B) 200
- (C) 300
- (D) 400

20. according to Naiyayikas we ascertain the relation of universal concomitance between x and y :

- (A) We can determine the relation only if we can determine the relation of essential identity between x and y
- (B) by perceiving that all in cases the presence of x is accompanied by the y
- (C) we can determine the relation only if we can determine the relation of cause and effect between x and y

(D) by not perceiving any instance where the presence of x is not accompanied by the presence by y or vice-versa

choose the correct answer from the option given below :

- (A) (A) and (C) only
- (B) (D) and (C) only
- (C) (B) and (D) only
- (D) (A), (B) and (C) only

21. Given below are two statements :

Statement I : According to classical Indian logic the fallacies (hetvabhasa ) are not error of inference . but rather hindrance to inference .

statement II: A fallacy is really a “ seeming reason or mark “ (hetvabhasa), which ,if recognized , would prevent the inferential cognition from arising.

In the light of the above statements. Choose the correct answer from the options given below :

- (A) Both statement I and statement II are true
- (B) Both statement I and statement II are false
- (C) Statement I is true but statement II is false
- (D) Statement I is false but statement II is true

22. In which of the following researches, attempts are made to establish context-free generalizations?

- (A) Phenomenology
- (B) Grounded theory
- (C) Symbolic interactionism
- (D) Experimental Studies

23. Given below are two statements :

Statement I : One of the basic principles of progressive view of teaching is that education should be life itself rather than a preparation for living.

Statement II : According to reconstructionist view of education the new social order must be ‘genuinely democratic’.

In the light of the above statements, Choose the correct answer from the options given below :

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.

24. Identify the main features of ‘qualitative research’ from the following :

- (A) It is concerned with understanding the phenomena from the participant’s perspective
- (B) It assumes that there are social facts with a single objective reality
- (C) Researcher becomes immersed in the situation, present or past
- (D) Researcher is detached from the study to avoid bias
- (E) There is greater flexibility in both the methods and research process

Choose the correct answer from the options given below :

- (A) (A), (C) and (E) only
- (B) (A), (B) and (C) only
- (C) (B), (C) and (D) only
- (D) (C), (D) and (E) only

25. Given below are two statements :

Statement I : Appropriate word choice is an essential of effective oral communication.

Statement II : Facial expression and postures fall under visual communication.

In the light of the above statements, Choose the correct answer from the options given below :

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.

26. What is the binary equivalent of the decimal number 67.625?

- (A) 1000010.110
- (B) 1000011.110
- (C) 1000010.101
- (D) 1000011.101

27. What percentage of India's land is vulnerable to earthquakes?

- (A) ~ 57%
- (B) ~ 42%
- (C) ~ 37%
- (D) ~ 28%

28. Identify the barriers to communication from the list given below :

- (A) Time and distance
- (B) By-passed instructions
- (C) Encoding of thoughts and ideas
- (D) Decoding of thoughts and ideas
- (E) Logical sequence

Choose the correct answer from the options given below :

- (A) (A) and (B) only
- (B) (B) and (C) only
- (C) (C) and (D) only
- (D) (D) and (E) only

29. The key behaviour of an effective teacher is marked by which of the following features?

- (A) Structuring
- (B) Teacher task orientation
- (C) Instructional Variety
- (D) Lesson clarity
- (E) Probing

Choose the correct answer from the options given below :

- (A) (A), (B) and (C) only
- (B) (A), (C) and (D) only
- (C) (B), (C) and (D) only
- (D) (C), (D) and (E) only

30. CBCS stands for

- (A) Choice Based Central Schemes
- (B) Choice Based Credit System
- (C) Central Board of Credit Schemes
- (D) Credit Board of Central Sponsors

31. Which of the following is an exclusive example of Non-verbal cue that includes the pitch, rate, volume and use of pauses?

- (A) Linear Model of Communication
- (B) Interactional Model
- (C) Non-Verbal Cues
- (D) Para-Language

32. Identify the correct order of the following different types of computer components ranked from fastest to slowest in terms of access time.

- (A) RAM
- (B) Optical Drive
- (C) CPU Cache
- (D) SSD

Choose the correct answer from the options given below :

- (A) (B), (D), (A), (C)
- (B) (C), (D), (A), (B)
- (C) (A), (B), (C), (D)
- (D) (C), (A), (D), (B)

33. Match List I with List II :

List I	List II
(Days Celebrated)	(When)
(A) Earth Day	(I) 24 January
(B) UNO Day	(II) 5th June
(C) Environment Day	(III) 24th October
(D) International Day of Education	(IV) 22nd April

Choose the correct answer from the options given below :

- (A) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (B) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
- (C) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
- (D) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

34. Match List I with List II :

List I	List II
(Computer Terms)	(Description)
(A) HTML	(I) Semantic Web
(B) Web 2.0	(II) Use of Internet to make phone calls
(C) Web 3.0	(III) Language used to create web pages
(D) VOIP	(IV) Collaborative web

Choose the correct answer from the options given below :

(A) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

(B) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

(C) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)

(D) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

35. Given below are two statements :

Statement I : Data analysis in research being a technical job, 'research ethics' does not matter.

Statement II : ICT is helpful almost at all stages of research.

In the light of the above statements, Choose the correct answer from the options given below :

(A) Both Statement I and Statement II are true.

(B) Both Statement I and Statement II are false.

(C) Statement I is true but Statement II is false.

(D) Statement I is false but Statement II is true.

36. Match list I and II :

List I	List II
(A) Vyapti	(I) The property being inferred
(B) Linga	(II) Locus of hetu and sadhya
(C) Sadhya	(III) Sign or reason
(D) Paksha	(IV) Universal concomitance

Choose the correct answer from the option given below :

(A) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)

(B) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)

(C) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

(D) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

37. Match List I with List II :

List I	List II
Methods of research	Features emphasized
(A) Experimental	(I) Primary and secondary sources tapped with emphasis on internal criticism
(B) ExPost Facto	(II) Status of facts and conditions are ascertained
(C) Descriptive	(III) A variable is manipulated to see its



	effect on other variable
(D) Historical	(IV) The differences are noted and factors causal or otherwise are determined

Choose the correct answer from the options given below :

(A) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

(B) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

(C) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)

(D) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

38. The average of 4 terms is 20, and the first term is  $\frac{1}{3}$ rd of sum of the remaining 3 terms. What will be the value of first term?

(A) 15

(B) 20

(C) 25

(D) 30

39. Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A) : When Null Hypothesis ( $H_0$ ) is rejected, researcher's hypothesis ( $H_1$ ) is accepted.

Reason (R) : Null Hypothesis ( $H_0$ ) is a chance hypothesis and as such ( $H_1$ ) being true, the researcher's hypothesis lies in the domain of acceptability.

In the light of the above statements, Choose the most appropriate answer from the options given below :

(A) Both (A) and (R) are correct and (R) is the correct explanation of (A).

(B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).

(C) (A) is correct but (R) is not correct.

(D) (A) is not correct but (R) is correct.

40. Match List I with List II gives their characteristic features.

List I	List II
(Modes of Evaluation)	(Characteristic Features)
(A) Formative Evaluation	(I) Compares one student with another student
(B) Summative Evaluation	(II) Compares the progress of a student against prespecified standards
(C) Criterion-referenced Evaluation	(III) Used primarily for motivational and monitoring purposes of learning
(D) Norm-referenced Evaluation	(IV) Used primarily for gradation of progress made

Choose the correct answer from the options given below :

(A) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

(B) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)

(C) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)

(D) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)

41. COVID-19 acronym stands for  
(A) Corona Virus Disease 2019  
(B) Corona Virus Disease strain 19  
(C) Corona Virus Disaster 2019  
(D) Corona Virus Disease 2020
42. Which of the following is most effectively promoted by Globalisation among the societies?  
(A) Monocultural values  
(B) Multicultural values  
(C) Regionalisation  
(D) Self centredness
43. Given below are two statements :  
Statement I : The abbreviation 'MOOC' stands for 'Massive Open Online Courses'.  
Statement II : The abbreviation 'SWAYAM' stands for 'Study Webs of Active-Learning for Young Academic Minds',  
In the light of the above statements, Choose the correct answer from the options given below :
- (A) Both Statement I and Statement II are true.  
(B) Both Statement I and Statement II are false.  
(C) Statement I is true but Statement II is false.  
(D) Statement I is false but Statement II is true.
44. Given below are two statements : One is labeled as Assertion A and the other is labeled as Reason R.  
Assertion (A) : In the context of communication, the perceptual process creates, semantic-noise also called word-noise.  
Reason (R) : The various meanings either connotative or denotative are sources of semantic noise.  
In the light of the above statements, Choose the most appropriate answer from the options given below:
- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).  
(B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).  
(C) (A) is correct but (R) is not correct.  
(D) (A) is not correct but (R) is correct.
45. Given below are two statements : One is labeled as Assertion A and the other is labeled as Reason R.  
Assertion (A) : 'Teaching' involves critical and creative interchanges between teacher and learner and hence it is different from 'instruction' and 'training'.  
Reason (R) : Both 'instruction' and 'training' are directed at lower order cognitive interchanges.  
In the light of the above statements,  
Choose the most appropriate answer from the options given below:
- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).  
(B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).  
(C) (A) is correct but (R) is not correct.  
(D) (A) is not correct but (R) is correct.

46. Which of the following statements are related to the role of ICT in citizen services?

- (A) Access to public documents
- (B) On-line payments
- (C) Better medical education across the country

Choose the correct answer from the options given below :

- (A) (A), (B) and (C)
- (B) (A) and (C) only
- (C) (B) and (C) only
- (D) (A) and (B) only

47. In which level of teaching promotion of critical thinking is the hall mark?

- (A) Memory level
- (B) Understanding level
- (C) Reflective level
- (D) Autonomous development level

48. A milk man purchases milk at Rs.  $X$  per litre and sells it at Rs.  $2X$  per litre. Still he mixes 2 litres of water with every 6 litre of pure milk. What is his profit percentage?

- (A) 33.33
- (B) 66.66
- (C) 133.33
- (D) 166.66

49. A seller mixes 26 kg rice of a price of Rs. 20/kg, with 30 kg of different variety rice of a price of Rs. 36/kg. He sells both the mixed rises at Rs. 30/kg. What will be the profit in percentage?

- (A) 5%
- (B) 10%
- (C) 15%
- (D) 20%

50. Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A) : Mankind's interaction with Earth has led to a highly complex and diverse ecosystem to an increasingly degraded environment.

Reason (R) : Many of the changes taking place in Earth's environment are irreversible.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	C	26	D
2	B	27	A
3	B	28	A
4	D	29	C
5	A	30	B
6	A	31	D
7	C	32	D
8	C	33	D
9	D	34	A
10	D	35	D
11	D	36	C
12	B	37	C
13	C	38	B
14	A	39	A
15	A	40	B
16	A	41	A
17	C	42	B
18	A	43	C
19	C	44	A
20	C	45	A
21	A	46	D
22	D	47	C
23	A	48	D
24	A	49	A
25	A	50	A



Failure is not the  
opposite of success,  
It is a part of success  
**GO GET IT**

## 20-11-2021 MGMT\_ FN

Read the given passage and answer the questions that follow

The following table has the number of enrolled students for a particular course and year.

Total number of seats are given in brackets with respect to each course.

Year	Number of Enrolled Students			
	BTech (120)	MTech (30)	MPhil (20)	MBA (60)
2016	96	24	12	52
2017	110	26	14	57
2018	108	25	13	54
2019	112	28	15	56
2020	104	27	16	48

- Which year has the minimum vacant seats?
  - 2016
  - 2017
  - 2018
  - 2019
- Which course has the highest percentage increase in enrollment of students from 2016-2017?
  - B Tech
  - M Phil
  - M Tech
  - MBA
- Find out the difference between average vacant seats of M Tech and MBA for 2016-2020.
  - 2.4
  - 2.5
  - 2.6
  - 2.7
- Which year has highest average enrollment?
  - 2017
  - 2018
  - 2019
  - 2020

5. What is the average number of vacant seats of B. Tech for years (2016-2020)?

- (A) 14
- (B) 15
- (C) 16
- (D) 17

6. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Two fundamental features of classroom communication are classroom instruction and classroom management.

Reason R: The classroom communication of teachers rests on the principle of edutainment.

In light of the above statements,

choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

7. AICTE is not dealing with the maintenance of standards in which one of the following areas?

- (A) Hotel Management
- (B) Nursing
- (C) Pharmacy
- (D) Town Planning

8. Given below are two statements

Statement I: Asamavyāpti corresponds to the Universal Affirmative proposition.

Statement II: Samavyāpti corresponds to the Universal Negative proposition.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

9. The steps involved in developing a performance test are

- A. Develop an observation/rating form.
- B. Try out the test items before developing a final form.
- C. Conduct a job (task) analysis to determine what abilities are to be tested.
- D. Develop an administration format
- E. Develop some type of task-sampling plan.

Choose the correct answer from the options given below

- (A) A, D, B, C, E
- (B) B, C, D, A, E
- (C) C, A, E, D, B
- (D) D, B, C, E, A

10. Given below are two statements

Statement I: Questionnaires are filled in by the participants themselves.

Statement II: Interview schedule is filled in by the interviewer/researcher.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

11. Which of the following statements are correct?

- A. The average of first twenty multiples of 8 is 84
- B. There are 25 prime numbers between 100 to 200.
- C. Average of ten positive numbers is X. If each number is increased by 10%, then new average increases by 11%.

Choose the correct answer from the options given below

- (A) A and B only
- (B) A and C only



- (C) A only
- (D) B and C only

12. A sum of money placed at compound interest doubles itself in 4 years. In how many years will it amount to of times? (Cancelled Question)

- (A) 12 years
- (B) 16 years
- (C) 5 years
- (D) 8 years

13. "A young child goes near an iron ball, feels the radiation of heat; from that she concludes that the ball must be quite hot and returns without physically touching the ball."

Here the cognition is through:

- (A) Inference
- (B) Knowledge through analogical reasoning
- (C) Perception
- (D) Verbal authority

14. Which term comes next in the sequence? (Cancelled Question)

AN, CQ, EU, \_\_\_\_

- (A) GY
- (B) HZ
- (C) IA
- (D) JB

15. Given below are two statements

Statement I: The Wood's Despatch recognised for the first time that the government should give frank and cordial support to female education and take effective measures for its expansion

Statement II: Girl candidates were allowed to appear in the matriculation examination for the first time by Calcutta University

In light of the above statements,

choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct

- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

16. A class conducted on Google Meet in which students and teachers are engaged in discussion in an instance of:

- (A) Downward communication
- (B) Group communication
- (C) Intrapersonal communication
- (D) Mass communication

17. Who proposed theory of meaningful verbal learning?

- (A) Benjamin Bloom
- (B) David Ausubel
- (C) Jerome Bruner
- (D) Lawrence Kohlberg

18. Identify the correct set of key mandate areas of the National Knowledge Commission

- A. Access
- B. Concepts
- C. Delivery
- D. Applications
- E. Services

Choose the correct answer from the options given below:

- (A) A, B, C and D only
- (B) A, B, D and E Only
- (C) A, C, D and E only
- (D) A, C, D and E only

19. Match List I with List II

List I	List II
A. Central Institute of English and Foreign languages	I. Chitrakoot
B. Gramodaya Vishwa Vidyalaya	II. Hyderabad
C. Central Institute of Tibetan studies	III. Bangalore
D. Indian Institute of Science	IV. Dharamshala

Choose the correct answer from the options given below:

- (A) A - I, B - III, C - IV, D - II
- (B) A - II, B - I, C - IV, D - III
- (C) A - III, B - IV, C - II, D - I
- (D) A - IV, B - I, C - II, D - II,

20. The unit digit of the product of first 22 natural number is

- (A) 0
- (B) 2
- (C) 4
- (D) 6

21. Following are some statements regarding the firewalls. Choose the correct statements

- A. Examine traffic between computer and a network
- B. Used to verify that data comes from a secure and trusted source
- C. Use the concept of digital signature
- D. Keep a list of IP addresses thus preventing access to certain websites

Choose the correct answer from the options given below:

- (A) A and D only
- (B) A and C only
- (C) B and C only
- (D) C and D only

22. The Latin words "Communis" or "Communicare" from which the term "Communication" is derived, means:
- (A) Make common, the information available
  - (B) Make something uncommon
  - (C) Produce information
  - (D) Provide specific information
23. Power and status are said to cause \_\_\_\_\_ barriers in communication.
- (A) Cultural
  - (B) Physical
  - (C) Semantic
  - (D) Technological
24. The NEP-2020 envisions higher education as
- A. playing an important role in promoting human as well as societal well being
  - B. enabling system for personal accomplishments with no economic contribution to society or public engagement
  - C. a system with less emphasis on development of cognitive skills and achieving learning outcomes
  - D. a system with identified sets of skills and values to be incorporated at each stage of learning from pre school to higher education
  - E. a system which needs complete overhaul and energising to overcome the challenges faced by the system
- (A) A, B and C only
  - (B) A, D and E only
  - (C) B, C and D only
  - (D) C, D and E only
25. Anaerobic digestion of sewage sludge is
- A. An effective process for organic solids
  - B. This process requires lots of energy
  - C. This process generates methane as an end product
  - D. Digested sludge is reduced in volume and easily dewatered

E. Very fast process and thus does not require large sized reactors

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and D only
- (C) A, C, D and E only
- (D) B, C, D and E only

26. Identify the fallacy committed in the argument:

"The policies suggested by him have no merit since he was once charged with embezzlement".

- (A) Appeal to Inappropriate Authority
- (B) Appeal to Pity
- (C) Argument ad Hominem (abusive)
- (D) Argument from Ignorance

27. Given below are two statements

Statement I: Toxic chemicals often injure organs as well as organ systems

Statement II: Hepatotoxins are chemicals that can damage kidneys

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

28. Match List I with List II

List I	List II
Indian ICT initiative	Purpose
A. e-Gyankosh	I. Open educational resources developed by NCERT in
B. e-Pathshala	II. Digital repository of learning resources developed by ODL institutions

C. NROER	III. Educational e-resources developed by NCERT in 2015
D. NDL	IV. Virtual repository of learning resources with single window search facility developed by IIT, Kharagpur

- (A) A - I, B - IV, C - II, D - III ,
- (B) A - II, B - III, C - I, D - IV
- (C) A - III, B - I, C - IV, D - II
- (D) A - IV, B - II, C - III, D - I

29. The concept "paradigm" is associated with:

- (A) Imre Lakatos
- (B) Karl Popper
- (C) R. A. Fisher
- (D) T. S. Kuhn

30. The Ethernet is

- (A) A device that can communicate with another computer
- (B) A program that identifies and moves traffic across local segments
- (C) A protocol designed for wireless MANs
- (D) A system that connects a number of computers or devices together to form a LAN

31. Following are the objections against mixed methods research:

- A. Quantitative and qualitative research are epistemologically different
- B. Quantitative research is better than the qualitative research
- C. Aims of quantitative and qualitative research are different
- D. Ontological assumptions of quantitative and qualitative research may be different
- E. Quantitative and qualitative research are paradigmatically incompatible

Choose the correct answer from the options given below:

- (A) A, B, C and D only
- (B) A, B, D and E only
- (C) A, C, D and E only

(D) B, C, D and E only

32. The Trojan horses

- (A) A software that gathers information by monitoring
- (B) Are malicious programs often disguised as legitimate software
- (C) Are viruses that can replicate themselves
- (D) Search automatically for an item on the internet

33. In the ancient Buddhist system of education, the student after being admitted to a monastery had to renounce all the worldly and family relationships. This was termed as

- (A) Pravajya
- (B) Samvartan
- (C) Upnayan
- (D) Upsampuda

34. Match List I with List II

List I	List II
Research Concepts	Definitions
A. Constant	I. A mode of interview whereby there are several participants with an emphasis on the questioning on a tightly defined topic
B. Semiotics	II. The segment of the population selected for research
C. Sample	III. An attribute in terms of which cases do not differ
D. Focus group	IV. An approach to the analysis of documents and other phenomenon

Choose the correct answer from the options given below:

- (A) A - I, B - III, C - II, D - IV
- (B) A - II, B - III, C - I, D - IV
- (C) A - III, B - IV, C - II, D - I
- (D) A - IV, B - I, C - II, D - III

35. Which among the following is a software for the analysis of qualitative data?

- (A) NVivo

- (B) R
- (C) SPSS
- (D) STATA

36. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: In a valid categorical syllogism, the middle term must be distributed in at least one premise.

Reason R: The conclusion of a valid argument cannot assert any more than is contained in the premises.

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

37. Given below are two statements regarding the data bus in the computer system

Statement I: Data bus sends data between the processor, memory unit and the I/O devices.

Statement II: It is uni-directional

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

38. Which of the following statements are correct?

- A. A proposition and E proposition are contradictories
- B. A proposition and O proposition are contradictories
- C. E proposition and O proposition are contradictories
- D. I proposition and O proposition are contraries
- E. I proposition and O proposition are sub-contraries



Choose the correct answer from the options given below:

- (A) A, C and D only
- (B) A, D and E only
- (C) B and D only
- (D) B and E only

39. Match List I with List II

List I	List II
Hazardous waste	Characteristic feature
A. Ignitable	I. Very unstable
B. Corrosive	II. Causes serious health issues
C. Reactive	III. Destroy containers
D. Toxic	IV. Able to sustain combustion

- (A) A - I, B - II, C - IV, D - III
- (B) A - I, B - IV, C - II, D - III
- (C) A - IV, B - III, C - I, D - II
- (D) A - IV, B - III, C - II, D - I

40. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Coastlines are considered as high potential areas for wind energy generation.

Reason R: Ocean water can be utilized as coolant during wind energy production

- (A) A is correct but R is not correct
- (B) A is not correct but R is correct
- (C) Both A and R are correct and R is the correct explanation of A
- (D) Both A and R are correct but R is NOT the correct explanation of A

41. Given below are two statements

Statement I: The single discount equivalent to a series discount of 10 %, 30 % and 50 % is 68.5%

Statement II: The single discount equivalent to a series discount of 10 %, 20 % and 40 % is 43.2%

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

42. Given below are two statements

Statement I: As per Piaget's stages of cognitive development, the child learns a language and begins to use symbols to represent objects during the pre-operational stage.

Statement II: As per Piaget's stages of cognitive development, the child learns through reflexes, senses and movement-actions on the environment during the formal operational stage.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

43. Match List I with List II

List I	List II
Security threats	Meaning
A. Hacking	I. 'Clog-up' a user's inbox with unwanted emails
B. Phishing	II. Gives the originator access to all data entered by the keyboard
C. Spyware	III. Identity fraud
D. Spam	IV. Illegal use of personal data

Choose the correct answer from the options given below:

- (A) A - I, B - III, C - II, D - IV,
- (B) A - II, B - IV, C - III, D - I,
- (C) A - IV, B - I, C - III, D - II

(D) A - IV, B - III, C - II, D - I,

44. Match List I with List II

List I	List II
Millenium Development Goal	Aim
A. Goal 1	I. Promote gender equality and empower women
B. Goal 2	II. Reduce child mortality
C. Goal 3	III. Eradicate extreme poverty and hunger
D. Goal 4	IV. Achieve universal primary education

Choose the correct answer from the options given below:

(A) A - I, B - III, C - II, D - IV

(B) A - II, B - IV, C - III, D - I

(C) A - III, B - IV, C - I, D - II

(D) A - IV, B - II, C - I, D - III

45. Being a smart consumer of media means:

(A) Being adept at recognizing subtle and not subtle forms of messages

(B) Belief in a few mass media channels

(C) Disbelief in messages received

(D) Following a few select TV channels one likes

Read the given passage and answer the questions that follow

Most of the people who appear most often and most gloriously in the history books are great conquerors, generals and soldiers, whereas the people who really helped civilization forward are often never mentioned at all. We do not know who first set a broken leg, or launched a seaworthy boat, or calculated the length of the year, or manured a field, but we all know all about the killers and destroyers. People think a great deal of them, so much so that on all the highest pillars in the great cities of the world you will find the figure of a conqueror or a general or a soldier. Most people believe that the greatest countries are those that have beaten in battle, the greatest number of other countries and ruled over them as conquerors. It is just possible they are, but they are not the most civilized. Animals fight; so do savages; hence to be good at fighting is to be good in the way in which an animal or a savage is good, but it is not to be civilized. Even being good at getting other people to fight for you and telling them how to do it

most efficiently- this, after all, is what conquerors and generals have done-is not being civilized. People fight to settle quarrels. Fighting means killing and civilized people ought to be able to find some way of settling their disputes other than by seeing which side can kill off the greater number of the other side and then saying that, that side which has killed most has won. And not only has won, but because it has won, has been in the right. For that is what going to war means; it means saying that might is right.

46. "That is what going to war means; it means saying that might is right", The meaning of this sentence is that:

- (A) in a war only those who are powerful will win
- (B) only those who are powerful should go to war
- (C) the winner is right and the loser wrong
- (D) those who are right should fight against those who are wrong

47. On all the highest pillars in the great cities of the world, we find:

- (A) a figure representing the number of conquerors, generals and soldiers in that country
- (B) the figure of a person who helped civilization forward
- (C) the figure of some conqueror or general or soldier
- (D) the figure of the same conqueror or general or soldier

48. Most people believe that the greatest countries are:

- (A) those that built the highest pillars
- (B) those that defeated a few countries
- (C) those that were beaten in battle by the greatest number of other countries
- (D) those that won the greatest number of battles against other countries

49. In the author's opinion, the countries that ruled over a large number of other countries are:

- (A) certainly not the greatest in any way
- (B) neither the greatest nor the most civilized
- (C) possibly the greatest in some sense but not the most civilized
- (D) possibly the most civilized but not the greatest

50. In the first sentence, the author says that:

- (A) Conquerors, generals and soldiers should not be mentioned in history

(B) History books tell us far more about conquerors and soldiers than about those who helped civilization forward

(C) Most history books were written by conquerors, generals and soldiers

(D) No one who really helped civilization forward is mentioned in any history book

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	D	26	C
2	B	27	C
3	C	28	B
4	C	29	D
5	A	30	D
6	D	31	C
7	B	32	B
8	B	33	A
9	C	34	C
10	A	35	A
11	C	36	D
12	-----	37	D
13	A	38	D
14	-----	39	C
15	A	40	D
16	B	41	D
17	B	42	D
18	B	43	D
19	B	44	C
20	A	45	A
21	A	46	C
22	A	47	C
23	C	48	D
24	B	49	C
25	B	50	B



Change begins at the  
end of your comfort zone  
**NEVER GIVE UP**

## 25-11-2021 MUSIC\_ FN

Study the table carefully and answer the questions that follow

Given below is a table that shows the expenditure of a company (in Lakh Rupees) per annum over the given years

Year ↓	Expenditure item →	Salary	Travel	Hospitality	Interest on Loan	Taxes
2016		330	70	30	28	80
2017		380	65	33	31	87
2018		420	72	35	33	91
2019		450	75	40	36	94
2020		480	84	43	39	97

- The difference between average expenditure on 'Taxes' and average expenditure on 'Interest on Loan' is:  
(A) 54.8  
(B) 55.6  
(C) 56.4  
(D) 57.2
- In which year is the ratio of Salary to Hospitality maximum  
(A) 2017  
(B) 2018  
(C) 2019  
(D) 2020
- In which year is the travel expenditure (as a percentage) minimum?  
(A) 2017  
(B) 2018  
(C) 2019  
(D) 2020
- Increase of expenditure from 2019 to 2020  
(A) 5.3  
(B) 5.8  
(C) 6.9  
(D) 7.2
- What is the average expenditure on Travel and Hospitality during 2016 to 2020?  
(A) 108.3  
(B) 108.7  
(C) 109.4  
(D) 110.5

6. Pick the correct code

- (A) A valid syllogistic argument cannot have two negative premises
- (B) Middle term must be distributed at least once in the premises of a syllogistic argument
- (C) With one negative premise in a syllogistic argument, the conclusion is negative
- (D) With two particular premises in a syllogistic argument, a universal conclusion can be drawn

7. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: A research question should have some connection with an existing theory or research.

Reason R: The research question formulated should be either too broad or too narrow.

In light of the above statements, choose the *correct* answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true and R is not the correct explanation of A

8. Which of the following are determinants in transactional communication?

- A. Social context
- B. Cultural context
- C. Relational context
- D. Legal context
- E. Delayed context

Choose the correct answer from the options given below:

- (A) B and E only
- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

9. 'I see a piece of fragrant sandalwood' would correctly represent

- (A) Jñānalakṣhaṇa
- (B) Nirvikalpa Pratyakṣa
- (C) Samānyalakṣhaṇa
- (D) Yogajña

10. Analytic Induction is a method of

- A. Systematic interpretation of events
- B. Generating hypothesis
- C. Testing hypothesis
- D. Freestyle interpretation



E. Testing null hypothesis only

Choose the correct answer from the options given below:

- (A) A, B and E only
- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

11. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: VisiCalc, the first spreadsheet software application, is a commonly cited example of one of the first killer applications.

Reason R: VisiCalc helped in bringing PCs into the business realm.

In light of the above statements, choose the correct answer from the options given below

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true and R is not the correct explanation of A

12. Match List I with List II

List I	List II
Artifacts	Description
A. History	I. Happens when subjects are given similar pre-tests and post-tests
B. Maturation	II. Subjects' reactions to experimental conditions
C. Testing	III. Occurrence of various events during a study
D. Demand characteristics	IV. Biological and psychological characters changing during the course of the study

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D - IV
- (B) A - II, B - III, C - IV, D - I
- (C) A - III, B - IV, C - I, D - II
- (D) A - IV, B - I, C - II, D - III

13. Given below are two statements:

Statement I: You can make the behaviors you teach, more authentic by changing the irrelevant aspects or context of what you are teaching as often as possible and in as many different ways as possible.

Statement II: To teach behavior that is authentic, your lesson need not present content in a way in which it will be used by your learners on assessments, in subsequent grades, and in the world outside your classroom.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

14. Kigali Amendment to the Montreal Protocol envisages reduction in HFCs consumption by late 2040s to the extent of

- (A) 50-55%
- (B) 65-70%
- (C) 80-85%
- (D) 90-95%

15. Which of the following is considered unethical communication?

- (A) Non-commercial publicity
- (B) Not revealing the source of information
- (C) Propaganda
- (D) Use of alternative source of information

16. Match List I with List II

List I	List II
Content Area	Integrating Technology Application
A. Reading/Language Arts	I. Software programs to develop basic reading skills
B. Mathematics	II. Simulations to explore distant places and times
C. Science	III. Graphing calculations to illustrate abstract or hard-to-visualize relationships
D. Social Studies	IV. Simulations to illustrate complex relationships

Choose the correct answer from the options given below:

- (A) A - I, B - III, C - IV, D - II
- (B) A - II, B - I, C - III, D - IV
- (C) A - III, B - IV, C - II, D - I
- (D) A - IV, B - II, C - I, D - III

17. According to Red list, the percentage of threatened mammals in the world is about

- (A) 20%
- (B) 25%
- (C) 40%
- (D) 45%

18. Identify the correct sequence of BRICS countries in relation to their Sustainable Development Goals Index (from highest to lowest) as per the Sustainable Development Report (2020)

- A. China
- B. India
- C. South Africa
- D. Brazil
- E. Russian Federation

Choose the correct answer from the options given below

- (A)  $A > D > E > C > B$
- (B)  $C > D > E > A > B$
- (C)  $C > E > B > D > A$
- (D)  $E > D > C > A > B$

19. Which of these decision traps pertains to thinking and planning activities?

- A. NOT keeping records
- B. Overconfidence
- C. Plunging-in
- D. Frame-blindness
- E. Poor frame control

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and E only
- (C) B, C and D only
- (D) C, D and E only

20. Which number comes next in this sequence? 1, 1.5, 2.5, 4, ?

- (A) 5.5
- (B) 5
- (C) 6.5
- (D) 6

21. Name the fallacy committed in the statements below

"All the text books are books intended for careful study.

Some reference books are books intended for careful study. Therefore, some reference books are text books."

Choose the correct answer from the options given below

- (A) Affirmative conclusion from Negative Premise
- (B) Exclusive Premises
- (C) Existential Fallacy
- (D) Undistributed Middle

22. How many minutes is it before 12 noon if 48 minutes ago it was three times as many minutes past 9 AM?

- (A) 33 minutes
- (B) 40 minutes
- (C) 43 minutes
- (D) 43.5 minutes

23. The characteristics of longitudinal studies are:

- A. Limited results
- B. Do not need heavy investment
- C. Provide alternative choices
- D. Allow insight into the time order of variables
- E. Focuses on individual or institutional developments

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and D only
- (D) C, D and E only

24. Given below are two statements:

Statement I: In communication, language ambiguity takes place because of the incorrect use of words.

Statement II: Informal time terms lead to different interpretations.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

25. Match List I with List II

List I	List II
Description	Appropriate Technical Term
A. Numerical ID for each device on the Internet	I. VOIP
B. Unique ID for a Network Interface Card (NIC)	II. URL
C. Use of the Internet to make phone calls	III. MAC Address
D. Text used by web browsers to locate a web address on the Internet	IV. IP Address

Choose the correct answer from the options given below:

- (A) A - I, B - III, C - IV, D - II

- (B) A - II, B - III, C - I, D - IV  
 (C) A - IV, B - III, C - I, D - II  
 (D) A - IV, B - III, C - II, D - I

26. Match List I with List II

List I	List II
A.NIEPA	I. Promotion of quality in technical education
B.NAAC	II. To promote research in social sciences
C.AICTE	III. Planning and management of education
D. ICSSR	IV. Accreditation of higher education institutions

Choose the correct answer from the options given below:

- (A) A - III, B - IV, C - I, D - II  
 (B) A - III, B - IV, C - II, D - I  
 (C) A - IV, B - II, C - I, D - III  
 (D) A - IV, B - III, C - II, D - I

27. The basic free version of 200M web meeting platform allows an online class to be conducted for how many minutes? **(Cancelled Question)**

- (A) 30 minutes  
 (B) 40 minutes  
 (C) 50 minutes  
 (D) 60 minutes

28. The population of a bacteria culture increases at a rate of 4% per annum. There is an additional increase of 1% of the population due to some reason.

The percentage increase in the population after two years is, therefore

- (A) 10.25  
 (B) 10.5  
 (C) 10.75  
 (D) 10

29. Consider 'E' proposition as True and 'I' as False in a square of opposition of proposition and pick the correct answer from the options given below

- (A) 'A' is True; 'A' is True  
 (B) 'I' is False; 'E' is True  
 (C) 'O' is False; 'E' is False  
 (D) 'O' is Undetermined; 'O' is Undetermined

30. Arrange these instructional events for delivering the lesson to students in sequential order from the beginning to the end.

- A. Informing the learner of the objectives  
 B. Eliciting desired behaviour

- C. Gaining attention
- D. Presenting the content
- E. Providing feedback

Choose the correct answer from the options given below:

- (A) A, D, B, C, E
- (B) B, C, A, E, D
- (C) C, A, D, B, E
- (D) D, C, B, A, E

31. The NEP-2020 recommends that the duration of the B.Ed. programme will be of

- A. One year
- B. Two years
- C. Three years
- D. Four years
- E. Five years

Choose the correct answer from the options given below:

- (A) A, B and D only
- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

32. Which of the following statements about internal and external computer memory are true?

- A. A portable hard drive is an example of internal memory
- B. Magnetic tape is used to store backups of data
- C. RAM is an internal memory
- D. ROM loses its data when the power is turned off

Choose the correct answer from the options given below:

- (A) A and C only
- (B) A and B only
- (C) B and C only
- (D) C and D only

33. Given below are two statements:

Statement I: A number is divisible by 12 if the number is divisible by both 3 and 4.

Statement II: A number is divisible by 3, if and only if the sum of all the digits of the number is divisible by 6.

In light of the above statements, choose the *correct* answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

34. CBCS provides an opportunity for students to choose courses from:

- A. Core courses
- B. Environmental education

- C. Elective courses
- D. Computer courses
- E. Ability enhancement courses

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and E only
- (C) B, C and D only
- (D) C, D and E only

35. The key objective of RUSA is to improve:

- A. Access
- B. Equity
- C. Quality
- D. Infrastructure
- E. Curriculum

Choose the correct answer from the options given below:

- (A) A, B and E only
- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

36. Which of the following is NOT a constituent-member of the Indian syllogistic argument?

- (A) Hetu
- (B) Samśaya
- (C) Udaharana
- (D) Upanaya

37. Which of the following are 'deemed to be university'?

- A. NCERT
- B. NIEPA
- C. Jamia Hamdard
- D. Jamia Millia Islamia
- E. IIIT

Choose the correct answer from the options given below:

- (A) A and B only
- (B) B and C only
- (C) C and D only
- (D) D and E only

38. Communication means \_\_\_\_\_ of information.

- A. Suppression
- B. Exchange
- C. Understanding
- D. Contextualisation
- E. Abstraction

Choose the correct answer from the options given below:

- (A) A, B and E only
- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

39. Which of the following statement/s is/are correct?

- A. Yaman crosses a 600m long road in 5 minutes. His speed is 7.2 km/hr
- B. Vinod performs  $\frac{2}{15}$  of his total journey by train;  $\frac{9}{20}$  by bus and rest 10km on cycle. His total journey is 24 km
- C. Anita can complete a work in 8 days. She can complete  $\frac{1}{8}$  fraction of the work in two days

Choose the correct answer from the options given below

- (A) A and B only
- (B) A and C only
- (C) A only
- (D) B only

40. The permissible limit for Arsenic in drinking water, as per Indian Standards[IS:10500] is

- (A) 0.05 mg/L
- (B) 0.5 mg/L
- (C) 1.0 mg/L
- (D) 2.0 mg/L

41. From the energy security perspective, which of the following energy sources is considered most secure for India?

- (A) Geothermal
- (B) Hydro
- (C) Solar
- (D) Wind

42. Match List I with List II

List I	List II
Concept of Power Communication	Description of feature
A. Legitimate power	I. Specialised knowledge
B. Referent power	II. By virtue of position
C. Reward power	III. When others feel to be like you
D. Expert power	IV. Control over what others seek

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D - IV
- (B) A - II, B - III, C - IV, D - I
- (C) A - III, B - IV, C - I, D - II



(D) A - IV, B - I, C - II, D - III

43. Which one of the following is a disadvantage of using proprietary software rather than open source software?

- (A) Proprietary software can only be accessed with a password
- (B) Proprietary software can only be used on proprietary systems
- (C) Proprietary software can only be used with an Internet connection
- (D) Proprietary software is usually more expensive

44. Sometimes, subjects who know that they are in a control group may work hard to excel against the experimental group. Such a phenomenon is known as

- (A) Compensatory Rivalry
- (B) Controlled Competition
- (C) Inspirational Influence
- (D) Motivational Contest

45. With respect to a music teacher who wishes to use a computer to help him to create training material, match List I with List II

List I	List II
Training Material	Most Appropriate File Format
A. Printed copies of instructions on how to play his music	I. MP3
B. Sound files of him playing his music	II. DOC
C. Video files of him playing his music	III. JPEG
D. Images of the instruments he teaches	IV. AVI

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D - IV
- (B) A - II, B - I, C - III, D - IV
- (C) A - II, B - I, C - IV, D - III
- (D) A - III, B - I, C - IV, D - II

Read the given passage and answer the questions that follow

The social structure of most developing countries no longer consists of a tiny upper class confronting a very large and mainly rural lower class, as earlier stereotypes had it. Intermediate strata have grown and diversified until they are, in at least some respects (recruitment to position of power, control of major political movements) dominant. In almost all of these countries, however, the 'middle strata' remain minorities (sometimes very small minorities) and have not achieved sufficient homogeneity of characteristics and interests to entitle them to the label of class.

The key differences between them and the middle classes in the past of the countries that are now industrialised or developed seem to be the following: first, the much greater importance of the role of formal education in giving access to middle (as well as upper) status; second, the much greater importance of salaried employment, particularly in the

public sector, in relation to self-employment in the professions or in small businesses; third, the presence of the 'demonstration effect' from the high income countries continually tending to stretch consumption aspirations beyond income capacity. Independent, frugal, entrepreneurially minded middle groups can still be identified, and some of them are coping resiliently with economic globalisation and other challenges. However, many factors in the situations in which they have found themselves- technological dependency, the dominance of large-scale enterprises, the bureaucratisation of the rules of the game- generally restricted them to secondary roles in economic evolution. Their educational aspiration for their children have been likely to divert most of these into bureaucratic or professional occupations. Moreover, in many cases, they have belonged to cultural minorities or alien immigrant groups encountering resistance once they become economically conspicuous.

46. The passage is focused on

- (A) Developmental options of the intermediate strata
- (B) The need for economic globalization
- (C) The rules of bureaucratization
- (D) The secondary roles of economic evolution

47. Which of the following are the restrictive factors for the development of middle groups?

- A. Attitude of independence and frugality
- B. Technological dependency
- C. Secondary role of bureaucracy
- D. Powerful and large business houses

Choose the correct answer from the options given below:

- (A) A and B only
- (B) B and C only
- (C) B and D only
- (D) C and D only

48. What do you understand by 'demonstration effect' as mentioned in the passage?

- (A) Control of power positions
- (B) Imitation of consumption aspirations of rich countries beyond one's income
- (C) Mobility from low income group to high income group
- (D) Public sector salaried employment as a goal

49. In the industrialised countries, people attained the status of the middle class because of access to

- (A) Areas of self-employment
- (B) Employable economic sectors
- (C) Formal education
- (D) Special minority tag

50. The present-day social structure in developing countries is punctuated by

- (A) A growing intermediate stratum
- (B) A small group of upper class
- (C) A vast mass of rural class
- (D) Stereotypical classes

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	C	26	A
2	B	27	-----
3	C	28	A
4	C	29	B
5	C	30	C
6	----	31	A
7	B	32	C
8	B	33	C
9	A	34	B
10	B	35	B
11	C	36	B
12	C	37	B
13	C	38	C
14	C	39	A
15	C	40	A
16	A	41	C
17	B	42	B
18	A	43	D
19	D	44	A
20	C,D	45	C
21	D	46	A
22	A	47	C
23	D	48	B
24	A	49	C
25	C	50	A

You only fail  
when you stop trying  
**KEEP GOING**



## 21-12-2021 PHY-EDU\_ FN

The following table embodies details about the number of Personal Computer (PCs) produced and the percentage of PCs sold by two companies A and B from the year 2014 to 2019. Based on the data in the table, answer the question

Year-Wise Production and sale of PCs

Year	Number of PCs Produced by company (in Thousands)		Percentage (%) of PCs sold by Company	
	A	B	A	B
2014	40	45	60%	50%
2015	52	48	75%	40%
2016	60	64	50%	75%
2017	70	62	80%	60%
2018	72	65	40%	80%
2019	90	80	60%	50%

- What is the total number of PCs produced by Company A which remain unsold in all the six years together?  
(A) 137400  
(B) 144340  
(C) 152200  
(D) 168000
- The number of PCs sold by Company A in 2015 is what percentage of the number of PCs sold by Company B in the year 2019?  
(A) 82.5%  
(B) 87.5%  
(C) 90%  
(D) 97.5%
- What is the difference between the total number of PCs sold and the total number of unsold PCs of Company B in all the six years together?  
(A) 68700  
(B) 70500  
(C) 72100  
(D) 73800
- What is the ratio of the number of PCs sold by Company B in 2018 to the number of PCs that remained unsold by Company A in the year 2015?  
(A) 5: 2  
(B) 4: 1  
(C) 5: 3  
(D) 4: 3
- The number of PCs sold by Company A in year 2017 is what percentage more than the number of PCs unsold by Company B in year 2016?  
(A) 250%

- (B) 200%
- (C) 120%
- (D) 80%

6. Given below are two statements:

Statement I: An informal fallacy is one that may be identified through mere inspection of the form or structure of an argument.

Statement II: Formal fallacy is one that can be detected only through analysis of the content of the argument.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both Statement I and Statement II are correct.
- (B) Both Statement I and Statement II are incorrect.
- (C) Statement I is correct but Statement II is incorrect.
- (D) Statement I is incorrect but Statement II is correct.

7. If the selling price is doubled, the profit triples. What would be the profit percentage?

- (A) 25%
- (B) 50%
- (C) 100%
- (D) 125%

8. Which level of teaching is also designated as 'exploratory understanding'?

- (A) Memory level
- (B) Understanding level
- (C) Reflective level
- (D) Autonomous development level

9. Identify the correct order of the following INTEL processors in the increasing order of speed.

- (A) 80486
- (B) 8085
- (C) Dual Core
- (D) Pentium-III

Choose the correct answer from the options given below:

- (A) (A), (B), (C), (D)
- (B) (B), (A), (D), (C)
- (C) (A), (B), (D), (C)
- (D) (A), (C), (D), (B)

10. Which type of Communication is most difficult in gearing message to an audience?

- (A) Interpersonal Communication
- (B) Mass Communication
- (C) Intrapersonal Communication
- (D) Group Communication

11. Match List I with List II

List I (Computer Terms)	List II (Description)
(A) Processor	(I) Part that runs executable programs
(B) RAM	(II) Part that stores files permanently
(C) Hard Disk	(III) Part that stores instructions and data temporarily for use
(D) Compiler	(IV) Part that translates source program to executable program

Choose the correct answer from the options given below:

- (A) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (B) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (C) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- (D) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)

12. Which fallacy is committed in the argument — "Sound is a quality because it is visible"?
- (A) Asryasiddha
  - (B) Vyapyatvasiddha
  - (C) Svarupasiddha
  - (D) Sadhyasiddha
13. Which of the following statements is true regarding two contrary propositions?
- (A) They can both be true
  - (B) The truth of one entails the falsity of the other
  - (C) They cannot both be false
  - (D) The falsity of one entails the truth of the other
14. Identify the characteristic features of 'Hypothetico-deductive research' paradigm:
- (A) Researcher is detached from the study to avoid bias
  - (B) Researcher becomes immersed in the research situation present or past
  - (C) The researcher seeks to establish relationships and explains causes of changes in measured social facts
  - (D) Actual settings are the direct source of data
  - (E) An attempt is made to set up universal context free generalizations.

Choose the correct answer from the options given below:

- (A) (A), (B) and (C) only
- (B) (B), (C) and (D) only
- (C) (A), (C) and (E) only
- (D) (C), (D) and (E) only

15. Given below are two statements:

Statement I: Bus, Ring, Star, and Mesh are types of network protocols.

Statement II: A short-range radio communication standard that transmits data over short distances upto approximately 30 feet is known as Bluetooth.

In the light of the above statements, Choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.



16. Given below are two statements:

Statement I: At every step of research genuineness is to be vouched. Hence the issue of research ethics becomes germane.

Statement II: ICT application in research is supportive and facilitative rather than mandatory and absolute.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both Statement I and Statement II are correct.
- (B) Both Statement I and Statement II are incorrect.
- (C) Statement I is correct but Statement II is incorrect.
- (D) Statement I is incorrect but Statement II is correct.

17. Match List I with List II

List I - Research Types	List II - Goal of Research
(A) Fundamental Research	(I) Appraising impact of interventions
(B) Applied Research	(II) Amelioration of a given situation
(C) Action of Research principles	(III) Exploring applicability of already established
(D) Evaluative Research	(IV) Advancing the corpus of knowledge in a field

Choose the correct answer from the options given below:

- (A) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (B) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (C) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (D) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

18. Given below are two statements:

Statement I: Audience noise is potent when the message is controversial.

Statement II: It is impossible for any communication to convert an audience from one viewpoint to another.

In the light of the above statements, Choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.

19. Given below are two statements: One is labelled as Assertion A and the other is labeled as Reason R.

Assertion (A): Research has shown that the two-step flow theory is oversimplified for every field of interest.

Reasons (R): People tend to make great use of the media now in their respective interest.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).



- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

20. Data of research take the forms of words or pictures with the researcher as the key instrument in which of the following studies?
- (A) Participant observation based Studies
  - (B) Ex Post Facto Studies
  - (C) Experimental Studies
  - (D) Descriptive survey Studies
21. The average age of A, B and C is 25 years. If the average age of A and B is 22 and that of B and C is 23. Then what is the age of B?
- (A) 15 years
  - (B) 20 years
  - (C) 25 years
  - (D) 30 years
22. Under which of the following conditions an inference may be categorized as Kevalanvayi?
- (A) When it is based on middle term which is only positively related to the major term
  - (B) When it is based on middle term which is only negatively related to the major term
  - (C) When it is based on middle term which is both positively and negatively related to the major term
  - (D) When middle term and major term have the relationship of identity (tadatmaya) between them
23. Identify the characteristics of 'Field-independent learner'
- (A) Seeks guidance and demonstrations from teacher
  - (B) Focuses on details of curriculum materials
  - (C) Likes to compete
  - (D) Relates concepts to personal experience
  - (E) Can organize information by himself or herself

Choose the correct answer from the options given below:

- (A) (A), (B) and (C) only
  - (B) (A), (C) and (D) only
  - (C) (B), (C) and (E) only
  - (D) (C), (D) and (E) only
24. Tidal range (R) is a critical factor in determining whether an estuary would be useful for tidal power generation as energy (E) available per tidal cycle depends on scales with R as according to the following relation:
- (A)  $E \propto R$
  - (B)  $E \propto R^{3/2}$
  - (C)  $E \propto R^2$
  - (D)  $E \propto R^3$
25. Which of the following group of statements in the context of Information Technology (IT) is correct?
- (A) Mouse, Keyboard, and Plotter are all input devices.
  - (B) Unix, Windows, and Linux are all operating systems.

- (C) Register, Cache Memory, and Hard Disk are all memory modules.  
(D) Monitor, Printer, and Scanner are all output devices.

Choose the correct answer from the options given below:

- (A) (A) and (B) only  
(B) (A) and (D) only  
(C) (C) and (D) only  
(D) (B) and (C) only

26. The Indian council of Social Science Research was established for:

- (A) strengthening different disciplines  
(B) promoting researches in social science  
(C) enhancing quality of social science as a discipline  
(D) providing a platform for discussion on social scientists' concerns  
(E) supporting seminars and conferences organized by Universities

Choose the correct answer from the options given below:

- (A) (A) and (C) only  
(B) (B) and (C) only  
(C) (A) and (B) only  
(D) (B) and (D) only

27. Which of the following statements about blogs in network communication is True?

- (A) The content of a blog can be edited by anyone.  
(B) A blog is a synchronous communication system that allows people to chat in real-time.  
(C) A blog consists of posts in reverse chronological order.  
(D) A blog is a history of web pages that you have visited, maintained by an ISP.

28. Mohan buys a second hand television at a cost of Rs. 7,500 and spends Rs. 500 on its repair. Later on he sells it at a cost of Rs. 9,000. How much profit he gets in this process?

- (A) 7.5%  
(B) 12.5%  
(C) 20%  
(D) 25%

29. The NEP 2020 prioritises the increase in the GER in preschool to secondary level by 100% by the year

- (A) 2025  
(B) 2030  
(C) 2035  
(D) 2040

30. Match List I with List II.

List I - Elements of Communication	List II - Characteristic feature
(A) Source	(I) Means used to convey the message
(B) Receiver	(II) Set of verbal and nonverbal cues from a source
(C) Message	(III) A person who interprets the message
(D) Channel	(IV) A person or an event which provides

verbal/non verbal cues.
-------------------------

Choose the correct answer from the options given below:

- (A) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (B) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (C) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (D) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

31. The first regulatory body in higher education in India was set up under the rubric of:

- (A) UGC
- (B) MCI
- (C) BCI
- (D) AICTE

32. Physical barriers to communication are rapidly disappearing, but psychological obstacles remain owing to which of the following?

- (A) By formal language
- (B) By visual presentation
- (C) By use of technology
- (D) By emotional appeal
- (E) By cultural attitude

Choose the correct answer from the options given below:

- (A) (A), (D) and (E) only
- (B) (A), (B) and (C) only
- (C) (B), (C) and (D) only
- (D) (C), (D) and (E) only

33. A coal fired thermal power plant has an efficiency of 35%. The electricity from the power plant is used entirely for lighting purposes with average efficiency of 20%. What is the overall efficiency of conversion from coal to lighting?

- (A) 15%
- (B) 55%
- (C) 70%
- (D) 7%

34. The cost price of 10 items is same as the selling price of N items. If the profit is 25%, then the value of N is?

- (A) 8%
- (B) 16%
- (C) 20%
- (D) 25%

35. For maintenance of standards of teaching examination and research and coordination of University Education which of the following section of UGC act should be referred to?

- (A) Section 28
- (B) Section 25
- (C) Section 15
- (D) Section 12

36. In a cricket match, in the first 20 overs run rate was 4.5. What should be the run rate in the remaining 30 overs to meet a target of 325?
- (A) 6.24
  - (B) 7.83
  - (C) 5.94
  - (D) 8.21

37. Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A): Teaching support system as provided by ICT based gadgets is intended to optimise learning and interest in learning material.

Reasons (R): Any meaningful support in teaching has to be instrumental in augmenting learning conditions and outcomes.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
  - (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
  - (C) (A) is correct but (R) is not correct.
  - (D) (A) is not correct but (R) is correct.
38. For drinking and irrigation purposes, the availability of suitable water out of earth's total water supplies is about less than
- (A) 1%
  - (B) 5%
  - (C) 6%
  - (D) 10%
39. Which kind of inference is illustrated when one argues that sound must be a quality because it cannot be a substance or an activity or a relation and so on?
- (A) Sesavata
  - (B) Purvavata
  - (C) Samanyaodrsta
  - (D) Both Purvavata and Samanyaodrsta
40. Given below are two statements:
- Statement I: Engagement in the learning process refers to the amount of time students devote to learning in the classroom.
- Statement II: Formative assessment is formal whereas summative assessment is informal.
- In the light of the above statements, Choose the correct answer from the options given below:
- (A) Both Statement I and Statement II are true.
  - (B) Both Statement I and Statement II are false.
  - (C) Statement I is true but Statement II is false.
  - (D) Statement I is false but Statement II is true.
41. Who among the following was the Chairman of University Education Commission (1948)?
- (A) Dr. D.S. Kothari
  - (B) Maulana Abul Kalam Azad
  - (C) Dr. Zakir Hussain

(D) Dr. S. Radhakrishnan

42. Given below are two statements: One is labelled as Assertion A and the other is labeled as Reason R.

Assertion (A): Research Hypothesis (H1) cannot be directly verified.

Reasons (R): Null Hypothesis (H0) is helpful in making a claim by the researcher that his/her findings are not fortuitous or by chance.

In the light of the above statements, Choose the most appropriate answer from the options given below:

(A) Both (A) and (R) are correct and (R) is the correct explanation of (A).

(B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).

(C) (A) is correct but (R) is not correct.

(D) (A) is not correct but (R) is correct.

43. As per Sustainable Development Goal 3, one of the targets is to reduce under-5 mortality per 1000 live births to at least as low as

(A) 50

(B) 40

(C) 25

(D) 15

44. Match List I with List II

List I - (Teaching Method)	List II - (Examples)
(A) Monologic teaching method	(I) Cybernetics and computer-aided instruction
(B) Dialogic teaching method	(II) Case studies and tutorials
(C) Action based teaching method	(III) Team teaching and demonstration
(D) Self study based teaching method	(IV) Simulation and role playing

Choose the correct answer from the options given below:

(A) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)

(B) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)

(C) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)

(D) (A)-(IV), (B)-(I), (C)-(III), (D)-(II)

45. In a polluted urban area, which of the following constituents of photochemical smog has the least concentration (parts per billion by volume)?

(A) CO Carbon monoxide

(B) Nitrogen dioxide

(C) Hydrocarbons (without methane)

(D) Ozone

Read the passage carefully and answer the question that follow:

How much time should you allot for group work? It depends on task complexity, but you must make some more refined estimates as well. You need to determine the time to devote to group work and time to devote to all groups coming together to share their contributions. This latter time may be used for group reports, a whole-class discussion, debriefing to relate the work experiences of each group to the end product, or some combination of these tasks.

Group work can easily get out of hand in the excitement, controversy, and natural dialogue that can come from passionate discussion. This possibility requires you to place limits on each stage of the cooperative learning activity, so one stage does not take time from another and leave the task disjointed and incomplete in your learners' minds. Most time naturally will be devoted to the work of individual groups, during which the major portion of the end product will be completed. Individual group work normally will consume 60% to 80% of the time devoted to the cooperative learning activity. The remaining time must be divided among individual group presentations and/or whole class discussion and debriefing that places the group work into the perspective of a single end product. If you plan both group reports and whole class discussion for the same day, be aware that the discussion probably will get squeezed into a fraction of the time required to make it meaningful. To avoid this, the group discussion or debriefing for the following class day may be so scheduled so that class members have ample time to reflect on their group reports and to pull together their own thoughts about the collaborative process, which may or may not have occurred as intended. Providing 15 or 20 minutes at the beginning of class the next day is usually enough time for students to have acquired the proper distance to reflect meaningfully on their experiences of the day before-and to learn from them.

46. What can disrupt group work?
- (A) Difficulty of task
  - (B) A whole class discussion
  - (C) Discussions which involve emotions
  - (D) Arguments on various points
47. The most appropriate caption for the passage will be:
- (A) Guidelines for cooperative learning
  - (B) Procedure for cooperative learning
  - (C) Precaution in the conduct of cooperative learning
  - (D) Limitations of cooperative learning
48. A major chunk of time in cooperative learning is devoted to which of the following?
- (A) Individual group presentation
  - (B) Whole class discussion
  - (C) Individual group work
  - (D) Debriefing
49. The members of cooperative learning team should be given enough time to
- (A) reflect
  - (B) discuss
  - (C) ask questions
  - (D) present new ideas
50. What is the main determinant of time allocation in cooperative learning?
- (A) Time devoted to group work
  - (B) Time devoted to all groups
  - (C) Time devoted to presentation of reports
  - (D) Complexity and the number of tasks involved

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	C	26	B
2	D	27	C
3	D	28	B
4	B	29	B
5	A	30	D
6	B	31	B
7	C	32	A
8	C	33	D
9	B	34	
10	B	35	D
11	A	36	B
12	C	37	A
13	B	38	A
14	C	39	A
15	D	40	C
16	A	41	D
17	B	42	A
18	C	43	C
19	A	44	B
20	A	45	D
21	A	46	C
22	A	47	C
23	C	48	C
24	C	49	A
25	D	50	D



Before anything else  
preparation is the key to success  
**DO IT NOW**





## 22-11-2021 POLI-SC\_ FN

The following table embodies the details about the enrolment of students in five different activities namely Swimming, Singing, Drawing, Dancing and Handicraft in a School during the session 2020-21. A total number of 3000 students including 1750 girls have been enrolled in various activities in the school. Based on the data in the table, answer the questions 1-5 :

Activity-wise Enrolment of Students

Activity Percentage	(%) of students enrolled (Out of 3000) Percentage	(%) of Girls enrolled (Out of 1750)
Swimming	16%	14%
Singing	21%	28%
Drawing	14%	16%
Dancing	24%	20%
Handicraft	25%	22%

- The number of girls enrolled in Dancing forms what percent (%) of the total number of students in the School? (Round-off to two digits)?  
 (A) 9.32%  
 (B) 10.67%  
 (C) 11.67%  
 (D) 14.67%
- What is the approximate percentage (%) of boys in the school?  
 (A) 42%  
 (B) 28%  
 (C) 34%  
 (D) 50%
- What is the ratio of the number of girls enrolled in Swimming to the number of boys enrolled in Swimming?  
 (A) 59 : 49  
 (B) 23 : 29  
 (C) 33 : 43  
 (D) 49 : 47
- How many boys are enrolled in Singing and Handicraft taken together?  
 (A) 485  
 (B) 505  
 (C) 420  
 (D) 585
- What is the total number of girls enrolled in Swimming and Drawing taken together?  
 (A) 506  
 (B) 515  
 (C) 525  
 (D) 535

6. Given below are two statements :

Statement I : Computer based testing promotes objectivity in assessment processes.

Statement II : Choice-based credit system in Indian Higher Education is a new entry.

In the light of the above statements, Choose the most appropriate answer from the options given below :

- (A) Both Statement I and Statement II are correct..
- (B) Both Statement I and Statement II are incorrect.
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct.

7. The global environmental issue of Ozone depletion is due to emission of :

- (A) Sulphur dioxide
- (B) Chlorinated hydrocarbons
- (C) Methane
- (D) Carbone dixoide

Choose the most appropriate answer from the options given below :

- (A) (A) and (B) only
- (B) (B) only
- (C) (B) and (D) only
- (D) (A), (B) and (C) only

8. Identify the features of empirico-inductive paradigm of research

- (A) Research is concerned with the process rather than simply with outcomes or products
- (B) Based on logical positivist philosophy which assumes a single objective reality
- (C) Researchers are concerned with what are called 'participant perspectives'
- (D) Attempts to establish universal context free generalizations

Choose the most appropriate answer from the options given below :

- (A) (A) and (B) only
- (B) (B) and (C) only
- (C) (C) and (D) only
- (D) (A) and (C) only

9. Given below are two statements : Statement I : CPU executes software directly from secondary memory. Statement II : A software is termed as Open Source Software if it can be downloaded from the Internet. In the light of the above statements, Choose the correct answer from the options given below :

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.

10. Match List I with List II

List I (Digital Initiatives in Higher Education)	List II (Purpose)
(A) SWAYAM	(I) Online store and access of academic

	awards namely degrees, mark-sheets etc.
(B) SWAYAM PRABHA	(II) Store and access personal e-documents irrespective of physical location.
(C) Digilocker	(III) MOOCs for high-quality education anywhere and anytime.
(D) NAD	(IV) Free DTH channel for high-quality education.

Choose the correct answer from the options given below :

- (A) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)  
 (B) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)  
 (C) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)  
 (D) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)

11. Under Sustainable Development Goal 12- Sustainable Consumption and Production, one of the targets is to reduce per capita food waste at the retail and consumer levels by :

- (A) 3/4  
 (B) 1/2  
 (C) 1/3  
 (D) 1/4

12. Which of the following values is related to self-transcendence?

- (A) Security value  
 (B) Value of Universalism  
 (C) Value of freedom  
 (D) Value of conformity

13. Smita rode her scooter Northwards, then turned left and then again rode to her left 4 km. She found herself exactly 2 km West of her starting point. How far did she ride Northward initially?

- (A) 2 km  
 (B) 5 km  
 (C) 4 km  
 (D) 6 km

14. Given below are two statements : One is labeled as Assertion A and the other is labeled as Reason R.

Assertion (A) : A research thesis has to follow a prescribed format and style of referencing.

Reasons (R) : This ensures the observance of research ethics.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).  
 (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).  
 (C) (A) is correct but (R) is not correct.  
 (D) (A) is not correct but (R) is correct.

15. Identify the indirect teaching strategies from the following list :
- (A) Gaining attention, informing the learner of the objective and presenting the stimulus material
  - (B) Concept building through examples and non-examples
  - (C) Explaining, exemplification and practice
  - (D) Problem based presentation with pair-share technique
  - (E) Encouraging students to use references from their own experiences

Choose the correct answer from the options given below :

- (A) (B), (D) and (E)
- (C) (B), (C) and (D)
- (B) (A), (B) and (C)
- (D) (C), (D) and (E)

16. Given below are two statements :

Statement I : According to Nyaya philosophy an argument proceeds only on those issues that are completely unknown.

Statement II : According to Nyaya philosophy an argument does not proceed on those issues that are well established.

In the light of the above statements. Choose the most apt answer from the options given below :

- (A) Both Statement I and Statement II are correct.
- (B) Both Statement I and Statement II are incorrect.
- (C) Statement I is correct but Statement II is incorrect.
- (D) Statement I is incorrect but Statement II is correct.

17. A 108 meter long train moving at a speed of 50 km/hr crosses a 112 meters long train coming from the opposite direction in 6 seconds. The speed of the second train is :

- (A) 48 km/hr
- (C) 66 km/hr
- (B) 54 km/hr
- (D) 82 km/hr

18. Identify the correct order of following computer memory types ranked from slowest to fastest in terms of access time.

- (A) Cache
- (B) CDROM
- (C) Hard Disk
- (D) RAM
- (E) Register

Choose the correct answer from the options given below :

- (A) (C), (B), (A), (D), (E)
- (C) (B), (C), (D), (A), (E)
- (B) (E), (A), (D), (C), (B)
- (D) (D), (A), (E), (B), (C)

19. Which of the following is an apex advisory and non statutory body?

- (A) NITI Aayog
- (B) NCTE

- (C) AICTE
- (D) MCI

20. Why do we communicate?
- (A) For social interaction.
  - (B) For happiness sake.
  - (C) For messages to be understood.
  - (D) For sharing of experience.
  - (E) For protection of traditions.

Choose the correct answer from the options given below :

- (A) (A), (C), (E) only
- (C) (A), (C), (D) only
- (B) (B), (C), (D) only
- (D) (A), (B), (E) only

21. Given below are two statements :

Statement I : Action Research is used primarily to improve a given situation by a practitioner.

Statement II : Applied research is directed at exploring applicability of principles already established.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both Statement I and Statement II are correct.
- (B) Both Statement I and Statement II are incorrect.
- (C) Statement I is correct but Statement II is incorrect.
- (D) Statement I is incorrect but Statement II is correct.

22. Which of the following is designated as key behaviour of effectiveness of teaching as evident from researches?

- (A) Using student ideas and contribution
- (B) Structuring
- (C) Teacher task-orientation
- (D) Teacher affect

23. Given below are two statements : One is labeled as Assertion A and the other is labeled as Reason R.

Assertion (A) : A man pulls a loaded truck by his hair which becomes news. Reasons (R) : Unusual things make news called oddity and generate public interest.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

24. The next number P in the sequence of binary numbers 0, 10, 100, 110, P is :

- (A) 111
- (B) 1000

- (C) 1010
- (D) 1001

25. Small hydro power potential in India is estimated approximately as

- (A) ~60 MW
- (B) ~ 100 MW
- (C) ~10 GW
- (D) ~ 20 GW

26. Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R. Assertion (A) : Teaching support system whether traditional or modern is purportedly put in place for effecting economy and ensuring quality in teaching-learning transactions. Reason (R) : Learning outcomes in order to be congruent with stipulated instructional goals need scaffolds to begin with. In the light of the above statements,

Choose the most appropriate answer from the options given below :

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

27. "Whoever thrusts a knife into another person should be arrested. Surgeons thrust a knife into another person when operating. Therefore surgeons should be arrested". Which fallacy is committed in the following argument?

- (A) Hasty generalization
- (B) Fallacy of accident
- (C) Red Herring
- (D) Appeal to unqualified authority

28. With reference to NyTya philosophy, which of the following statements is true?

- (A) The linga or the middle term is not the 'Canna or operative cause of inference.
- (B) The middle term may be a thing of the present but not of the past or the future.
- (C) The middle term can function in an inference when past or future.
- (D) The middle term can lead to the conclusion apart from the knowledge of vyitpti or the universal relation between it and the major term.

29. Three men, four women and six children can complete a work in seven days. A woman does double the work a man does and a child does half the work a man does. How many women alone can complete this work in 7 days?

- (A) 7
- (B) 8
- (C) 9
- (D) 12

30. Who among the following was the first Chairman of UGC?

- (A) Sh Humayun Kabir
- (B) Sh C.D. Deshmukh
- (C) Sh M. Moolgaokar
- (D) Moolchand Sharma

31. In which method of research an independent variable is manipulated with an intent to observe concomitant changes in dependent variable?
- (A) Ex Post Facto method  
(B) Case study method  
(C) Descriptive survey method  
(D) Experimental method
32. Which of the following statements about wikis are True?
- (A) Wiki pages can be locked by moderators to prevent vandalism.  
(B) Every change that is made to a wiki page is logged and can be viewed in a history list.  
(C) A wiki is designed to allow people to collaborate easily.

Choose the correct answer from the options given below :

- (A) (A) and (B) only  
(B) (B) and (C) only  
(C) (A) and (C) only  
(D) (A), (B) and (C)

33. Match List I with List II

List I (Digital Initiatives in Higher Education)	List II(Purpose)
(A) SWAYAM	(I) Online store and access of academic awards namely degrees, mark-sheets etc.
(B) SWAYAM PRABHA	(II) Store and access personal e-documents irrespective of physical location.
(C) Digilocker	(III) MOOCs for high-quality education anywhere and anytime.
(D) NAD	(IV) Free DTH channel for high-quality education. Choose the correct answer from the options given below :

- (A) (A)-(I), (B)-(IV), (C)-(II), (D)-(I)  
(B) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)  
(C) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)  
(D) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)

34. Which of the following is an example of physical barrier to communication?
- (A) Cultural disparity  
(B) Inattention  
(C) Verbalism  
(D) Ill health

35. Match List I with List II

List I	List II
--------	---------

Types of communication	Function served
(A) Mass communication	(I) Corridor discussion
(B) Intrapersonal communication	(II) Classroom Teaching
(C) Group communication	(III) For communicates with oneself
(D) Interpersonal communication	IV) For mechanical message transmission

Choose the correct answer from the options given below :

- (A)(A)-(IV), (B)-(III), (C)-(II), (D)-(I)  
 (B) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)  
 (C) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)  
 (D) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)

36. NEP-2020 proposes to establish which of the following new bodies?

- (A) SSSA  
 (B) PARAKH  
 (C) IITI (D) NITI  
 (E) NTA

Choose the correct answer from the options given below :

- (A)(A), (C), (D) only  
 (B) (B), (C), (E) only  
 (C) (A), (B), (C) only  
 (D) (B), (C), (D) only

37. The NEP-2020 proposes to prepare which of the curriculum frameworks?

- (A) National Curriculum Framework for School Education  
 (B) National Curriculum Framework for Adult Education  
 (C) National Curriculum Framework for Teacher Education  
 (D) National Curriculum Framework for Technical Education  
 (E) National Curriculum Framework for Vocational Education

Choose the correct answer from the options given below :

- (A)(A), (C), (E) only  
 (B) (B), (C), (D) only  
 (C) (A), (B), (C) only  
 (D) (C), (D), (E) only

38. Given below are two statements :

Statement I : A formal fallacy is one that may be identified through mere inspection of the form or structure of an argument.

Statement II : Formal fallacies are found only in deductive arguments that have identifiable forms.

In the light of the above statements,



Choose the correct answer from the options given below

- (A) Both Statement I and Statement II are true.  
 (B) Both Statement I and Statement II are false.  
 (C) Statement I is true but Statement II is false.  
 (D) Statement I is false but Statement II is true.

39. Match List I with List II :

List I Modalities of Teaching	List II Implementation
(A) Instruction	(I) One way imposition of ideas from the teacher to the students
(B) Training	(II) Associative presentation of ideas from teacher to students
(C) Conditioning	(III) Disciplined drill conducted by teacher
(D) Indoctrination	(IV) Active interchange of ideas between teacher and students

Choose the correct answer from the options given below :

- (A) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)  
 (B) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)  
 (C) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)  
 (D) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

40. If a 30 meter ladder is placed against a 15 metre wall such that it just reaches the top of the wall, the angle of elevation of the wall is :  
 (A)  $45^\circ$   
 (B)  $30^\circ$   
 (C)  $60^\circ$   
 (D)  $50^\circ$
41. The profit earned by selling a chair for Rs. 752 is 1.2 times the loss incurred when the same chair was sold for Rs. 400. What is the cost price of the chair?  
 (A) Rs. 540  
 (B) Rs. 592  
 (C) Rs. 560  
 (D) Rs. 640
42. When in a classroom communication, a teacher shows ability of creativity, correlation and analysis, it belongs to which category of skills?  
 (A) Thinking skills

- (B) Expression skills
- (C) Media utilization skills
- (D) Human skills

43. The waste component of waste categorized as 'Trash' consists of

- (A) Paper, Cardboard cartons
- (B) Animal wastes
- (C) Industrial process wastes
- (D) Vegetable wastes
- (E) Wood

Choose the correct answer from the options given below :

- (A) (A) and (E) only
- (B) (A), (C) and (E) only
- (C) (A), (C), (D) and (E) only
- (D) (A), (B), (D) and (E) only

44. Given below are two statements :

Statement I : Mimrtinsakas and Vedintins agree with the Naiybrikas that the syllogism consists of five members or propositions.

Statement II : Mimitthsakas and Veditntins agree with the Naiyityikas that the syllogism is necessary only for pariuthimulna or demonstrate inference and not for svitrthrinumitna or inference for oneself.

In the light of the above statements.

Choose the most appropriate answer from the options given below :

- (A) Both Statement I and Statement II are correct.
- (B) Both Statement I and Statement II are incorrect.
- (C) Statement I is correct but Statement II is incorrect.
- (D) Statement I is incorrect but Statement II is correct.

45. Match List I and List II

List I	List II
Sampling Methods	Procedure involved
(A) Simple Random Sampling informant to identify	(I) The first member is used as an other.
(B) Stratified Random Sampling basis of their settings	(II) The units are chosen intact on the The process goes on like this
(C) Cluster Sampling randomly	(III) The units are chosen from defined groups/levels
(D) Snowball sampling independent	(IV) The units are chosen by giving equal and chance to each

Choose the correct answer from the options given below :

- (A) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (B) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (C) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (D) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

Read the passage carefully and answer the question that follow:

As the world is becoming increasingly interconnected, Global Citizenship Education (GCED), a response to contemporary global challenges, will be provided to empower learners to become aware of and understand global issues and to become active promoters of more peaceful, tolerant, inclusive, secure and sustainable societies. As a part of holistic education, students at all HEIs will be provided with opportunities for internships with local industry, businesses, artists, crafts person etc. as well as research internship with faculty and researchers at their own or other HEIs/research institutions, so that students may actively engage with the practical side of their learning and, as a by-product, further improve their employability. India will be promoted as a global study destination providing premium education at affordable costs thereby helping to restore its role as a Vishwa Guru. An international students office at each HEI hosting foreign students will be set up to coordinate all matters relating to welcoming and supporting students arriving from abroad.

Research training collaboration and faculty/student exchanges with high quality foreign institution will be facilitated, and relevant mutually beneficial MOU with foreign countries will be signed. High Performing Indian Universities will be encouraged to set up campuses in other countries, and similarly, selected universities e.g. those from top 100 universities in the world will be facilitated to operate in India. A legislative framework facilitating such entry will be put in place and such universities will be given special dispensation regarding regulatory, governance and content norms on par with other autonomous institutions of India. Furthermore, research collaboration and student exchanges between Indian institutions and global institutions will be promoted through special efforts. Credits acquired in foreign universities will be permitted, where appropriate as per the requirements of each HEI, to be counted for the award of a degree.

46. Which of the following statements most appropriately represent one of the chief concerns regarding higher education?
- (A) It argues for only local production and of knowledge and its implementation.
  - (B) It emphasizes only upon implementation of foreign higher education models in India.
  - (C) It argues for mutual exchange of knowledge and learning among national and international institutions of higher education.
  - (D) It argues for practical learning alone for employability putting social issues aside.
47. New National Education Policy is grounded in the assumptions that :
- (A) There is increasing interconnectedness among nations at the global level.
  - (B) Technical knowledge should replace traditional models of learning.
  - (C) HEIs must focus on promotion of desirable ethical values.
  - (D) There is need for changes in legislative framework to facilitate free exchange of academic ideas and achievements.

Choose the correct answer from the options given below :

- (A) (A), (B) and (D) only
- (B) (A) and (C) only

- (C) (A), (C) and (D) only
- (D) (C) and (D) only

48. Holistic education at HEIs is aimed at :

- (A) Research internship with researchers and faculty at different HEIs.
- (B) Recycling of traditional knowledge systems.
- (C) Providing opportunities for internships at local level.
- (D) Keeping social sciences and natural sciences within distinct spheres of teaching and learning.

Choose the correct answer from the options given below :

- (A) (B) and (D) only
- (B) (A) and (C) only
- (C) (A) and (D) only
- (D) (C) and (D) only

49. Given below are two statements :

Statement I : National Education Policy envisages learning as a process of inculcating values of tolerance, inclusion and sustainability.

Statement II : National Education Policy lays stress on employability of learners in businesses and industries.

In the light of the above statements,

Choose the most appropriate answer from the options given below :

- (A) Both Statement I and Statement II are correct.
- (B) Both Statement I and Statement II are incorrect.
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

50. Given below are two statements :

Statement I : National Education Policy is framed with an objective of saving national HEIs from competition at the global level.

Statement II : National Education Policy is framed with an objective of encouraging exchange of knowledge and expertise both at local and global level.

In the light of the above statements, Choose the most appropriate answer from the options given below :

- (A) Both Statement I and Statement II are correct.
- (B) Both Statement I and Statement II are incorrect.
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct.

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	C	26	A
2	A	27	B
3	D	28	A
4	B	29	A
5	C	30	B
6	A	31	D
7	B	32	D
8	D	33	A
9	B	34	D
10	A	35	A
11	B	36	C
12	B	37	C
13	C	38	A
14	C	39	C
15	A	40	B
16	D	41	C
17	D	42	A
18	C	43	A
19	A	44	D
20	C	45	B
21	A	46	C
22	C	47	C
23	A	48	B
24	B	49	A
25	D	50	D



Do one thing every day  
that scares you  
**YOU MUST DO IT**

## 21-11-2021 PSY\_ AN

The table below embodies data on the number of candidates who appeared (A) and passed (P) in Civil Services Examination from four cities K, L, M and N during the year 2014 to 2019. In accordance with the table, answer the question

Year-Wise Number of Candidates from Different Cities								
City → Year ↓	K		L		M		N	
	A	P	A	P	A	P	A	P
2014	782	360	612	310	720	410	1020	802
2015	804	472	608	324	728	480	1135	840
2016	720	448	636	298	680	390	1084	864
2017	750	360	655	305	695	396	1096	766
2018	824	504	640	346	712	424	1180	752
2019	850	496	600	315	740	464	1165	780

- For which of the following cities the percentage of candidate passed among those who appeared for the examination is minimum in the year 2019?  
(A) K  
(B) L  
(C) M  
(D) N
- What is the percentage rise in the number of candidates who passed from City K from year 2017 to year 2018?  
(A) 32%  
(B) 36%  
(C) 40%  
(D) 44%
- What is the average number of candidates passed from all the four cities in the year 2015?  
(A) 528  
(B) 529  
(C) 530  
(D) 531
- What is the difference between the total candidates who appeared and total candidates who passed from City K in all the six years together  
(A) 2060  
(B) 2070  
(C) 2080  
(D) 2090
- The total number of candidates who passed from City M in all six years together is what percentage (%) of the total candidates who appeared from City M in all the six years together?  
(A) 56%

- (B) 58%
- (C) 60%
- (C) 62%

6. In a certain code language, 24685 is written as 33776. How is 35791 written in that code?

- (A) 44826
- (B) 44882
- (C) 46682
- (D) 44682

7. The new curricular and pedagogical structure of School Education as proposed by NEP-2020 is

- (A)  $5 + 3 + 2 + 2$
- (C)  $5 + 3 + 3 + 4$
- (B)  $2 + 5 + 3 + 4$
- (D)  $2 + 5 + 3 + 9$

8. In two groups, randomized subjects post test only research design which of the following may be the source for jeopardizing validity?

- (A) Pretesting procedures
- (B) Measuring instruments
- (C) Interaction of selection and the independent variable
- (D) Reactive experimental procedures
- (E) Statistical regression

Choose the correct answer from the options given below:

- (A) (A) and (B) only
- (B) (B) and (C) only
- (C) (C) and (D) only
- (D) (D) and (E) only

9. According to Nyaya the argument — 'Sound is eternal because it is produced' commits which of the following fallacy?

- (A) Viruddha (Contradicting reason)
- (B) Nature of the opposable reason ( Satpratipaksa)
- (C) Unestablished reason (asiddha)
- (D) Nature of unopposable reason (a Satpratipaksa)

10. On which of the following date National Education Day is celebrated each year?

- (A) 28 Feb
- (B) 5 June
- (C) 11 Nov
- (D) 1 Dec

11. The least contributor to noise in communication system by the audience is

- (A) Selective attention



- (C) Selective retention
- (B) Selective perception
- (D) Selective intention

12. Given below are two statements:

Statement I: The works in Nyaya - Sastra discuss the aggregate causal conditions and the process involved in inferential cognition.

Statement II: The works in Nyaya - Saststra do not however dwell upon analysis of the factors that help to assess and decide the formal validity of a judgement.

In the light of the above statements. Choose the most appropriate answer from the options given below:

- (A) Both Statement I and Statement II are correct.
- (B) Both Statement I and Statement II are incorrect.
- (C) Statement I is correct but Statement II is incorrect.
- (D) Statement I is incorrect but Statement II is correct.

13. Creating purpose statements. research questions and hypotheses that are narrow and measurable would mark the characteristic features of which research type?

- (A) Narrative research
- (B) Ethnographic research
- (C) Grounded theory research
- (D) Experimental research

14. Match List I with List II

List I - (Computer Components)	List II – (Description)
(A) HDD	(I) Visual Display Unit
(B) RAM	(II) Volatile Memory
(C) ROM	(III) External Memory
(D) CRT	(IV) Non-Writable Memory

Choose the correct answer from the options given below :

- (A) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (B) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
- (C) (A)-(IV), (B)-(III), (C)-(H), (D)-(I)
- (D) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)

15. With respect to computers. what is the main advantage of a Graphical User Interface (GUI) compared with a Command Line Interface (CLI)?

- (A) Provides higher level of security and requires less memory
- (B) Easier to use for non-experts
- (C) Performs complex tasks faster and requires less memory
- (D) Requires less processing power

16. A milkman has been mixing water with milk to earn 25 per cent profit by selling the mixture at the cost price. The ratio of water and milk, respectively, is?

(A) 4: 5  
(B) 5: 4  
(C) 1: 6  
(D) 1: 4

17. Given below are two statements:

Statement I: Knowledge, comprehension and application levels in Bloom's taxonomy belong to the higher level of cognitive learning.

Statement II: Organization and characterization belong to higher level of affective outcomes.

In the light of the above statements, choose the most appropriate answer from the options given below:

(A) Both Statement I and Statement II are correct.  
(B) Both Statement I and Statement II are incorrect.  
(C) Statement I is correct but Statement II is incorrect.  
(D) Statement I is incorrect but Statement II is correct.

18. Identify the correct order of the following computer storage capacities ranked from smallest to largest capacity.

(A) 00 GBytes  
(B) 10 000 000 000 Bytes  
(C) 1 TBytes  
(D) 100 000 MBytes  
(E) 1 000 000 KBytes

Choose the correct answer from the options given below:

(A) (D), (B), (E), (A), (C)  
(B) (E), (B), (D), (A), (C)  
(C) (B), (E), (D), (A), (C)  
(D) (E), (B), (D), (C), (A)

19. Match List I with List II

List I - (Levels of teaching and learning)	List II - (Main Feature)
(A) Autonomous development level	(I) It is problem-centred and requires on the part of learners more active participation. more imagination and creativeness
(B) Memory level	(II) Lays stress on the importance of students' feelings and minimizes the value of hard thinking.
(C) Understanding level	(III) It is comparatively thoughtless.
(D) Reflective level	(IV) It emphasizes on seeing of relationships between principles and solitary facts.

Choose the correct answer from the options given below:

- (A) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (B) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (C) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (D) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)

20. Match List I with List II

List I - Styles that impede communication	List II – Characteristic feature
(A) Placating	(I) Doing or saying what is irrelevant
(B) Blaming	(II) Being overcorrect
(C) Computing	(III) Fault finding and acting as superior
(D) Distracting	(IV) Talking in an ingratiating way

Choose the correct answer from the options given below:

- (A) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (B) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (C) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (D) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

21. A watch reads 4.30. If the minute hand points East. in which direction will the hour hand point?

- (A) North
- (B) North-West
- (C) South-East
- (D) North-East

22. Given below are two statements:

One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A): Production of electricity from Renewable Energy sources is without adverse environmental impacts.

Reason (R): There is no net emission of carbon di-oxide into atmosphere from exploitation of Renewable sources of energy.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

23. The set of attributes shared by all and only those objects to which a general term refers. is called:

- (A) The intension of that term
- (B) Connotation of that term

- (C) The extension of that term
- (D) Denotation of that term

Choose the correct answer from the options given below:

- (A) (A) and (B) only
- (B) (C) and (D) only
- (C) (A) and (C) only
- (D) (A) and (D) only

24. Given below are two statements:

Statement I: A web browser is a piece of software that retrieves and displays web pages.

Statement II: A search engine is a special kind of website that helps people in finding web pages from other web-sites.

In the light of the above statements. Choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.

25. Identify the characteristics of field-dependent learners from the following?

- (A) Perceives global aspects of concepts and materials
- (B) Focuses on facts and principles
- (C) Prefers to work alone
- (D) Seeks guidance and demonstration from teacher
- (E) Likes to cooperate

Choose the correct answer from the options given below:

- (A) (A), (B) and (C) only
- (B) (A), (D) and (E) only
- (C) (B), (C) and (D) only
- (D) (C), (D) and (E) only

26. Which of the following are essential for good governance of colleges and universities?

- (A) Academic autonomy
- (B) Legal autonomy
- (C) Financial autonomy
- (D) Administrative autonomy

Choose the correct answer from the options given below:

- (A) (A), (C), (D) only
- (B) (A), (B), (C) only
- (C) (B), (C), (D) only
- (D) (B), (C) only

27. Which theory of learning supports reflective level of teaching?  
 (A) Theory of conditioning  
 (B) Reinforcement theory  
 (C) Need-reduction theory  
 (D) Cognitive field theory
28. According to India Meteorological Department, average sustained wind speed over 3 minutes of a cyclonic storm, is in the range  
 (A) 40 — 50 km/hr  
 (B) 50 — 60 km/hr  
 (C) 63 — 88 km/hr  
 (D) 200 — 225 km/hr
29. "Famous Singer Himanshu says that Coffeehill chocolates are groovy. We can only conclude that Coffeehill chocolates are groovy indeed".  
 Which of the fallacy is committed in the above statement?  
 (A) Hasty Generalisation  
 (B) Appeal to unqualified authority  
 (C) Slippery slope  
 (D) Missing the point
30. 'Wheezing' is the most relevant Health Effect in case of the air pollutant  
 (A) Ozone  
 (B) Carbon monoxide  
 (C) Nitrogen dioxide  
 (D) Sulphur dioxide
31. With regard to computer memory, which of the following statements are TRUE?  
 (A) Secondary storage is slower, cheaper, and less volatile than primary storage.  
 (B) Tape drives are direct access devices.  
 (C) The contents of most forms of RAM are volatile, thus making them unsuitable for long term data storage.

Choose the correct answer from the options given below:

- (A) (A) and (B) only  
 (B) (B) and (C) only  
 (C) (A) and (C) only  
 (D) (A), (B) and (C)

32. Match List I with List II

List I - Research Steps	List II - Main features
(A) Defining a research problem	(A) Appropriate statistical techniques for data analysis
(B) Hypothesis making	(II) Representativeness of the units chosen
(C) Drawing a research sample	(III) Identifying the variables for setting up

	a plausible relationship
(D) Hypothesis testing	(IV) Carefully chosen terms and concepts with operational descriptions. if need be.

Choose the correct answer from the options given below:

- (A) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (B) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (C) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (D) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

33. How many missions are there under the Climate Action Plan of Govt. of India?

- (A) 4
- (B) 8
- (C) 12
- (D) 17

34. Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Statement I: Communication is the process of transmitting a message from a source to an audience via a channel.

Statement II: To establish 'Commonness' between the source and the audience is effective for success of communication.

In the light of the above statements. Choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.

35. Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A): Formative assessment is process linked and directed at raising motivation and engagement levels in learning.

Reasons (R): The purpose of formative assessment is to improve quality of learning outcomes.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

36. A 12 percent debt instrument fields 20 percent return. The market price of the underlying debt instrument is (Cancelled Question)

- (A) Rs. 167
- (B) Rs. 170

- (C) Rs. 60  
(D) Rs. 40

37. Match List I with List II. Match the features of education of various types.

List I	List II
(A) Ancient Vedic Education	(I) Equality was the foundation of student-teacher relationship
(B) Post Vedic Education	(II) Enrichment of knowledge and experience
(C) Brahmanic Education	(III) Knowledge results in wiping out falsehood
(D) Buddhist system of Education	(IV) Emphasis on character building and self realisation

Choose the correct answer from the options given below:

- (A) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)  
(B) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)  
(C) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)  
(D) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

38. The difference between the simple interest received from two different sources on Rs. 1,500 for three years is Rs. 13.50. The difference between their rates of interest is  
(A) 0.1%  
(B) 0.2%  
(C) 0.3%  
(D) 0.4%

39. With reference to pramana theory both on dialogical and philosophical discourse, which of the following options are correct?  
(A) It furnishes the required grounding for the thesis to be backed up by a certain means of knowledge.  
(B) It provides the necessary platform to incisely analyse the proposed thesis.  
(C) It enables us to succinctly summarise the observations, that stem out of analysis. in the form of anumana or nyaya prayoga.  
(D) It enables the debater to elicit acceptance of his/her own belief system on the basis of formal validity alone.

Choose the correct answer from the options given below:

- (A) (A) and (B) only  
(B) (A) and (C) only  
(C) (A), (B) and (C) only  
(D) (A), (B) and (D) only

40. Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A): More effective communication occurs when source and receiver are homophilous.

Reasons (R): Source and receiver use same language and words to stimulate similar meaning.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

41. Which of the following are parameters of an effective communication?

- (A) Freedom to see and hear. What is here?
- (B) Freedom to say. What one thinks and feels?
- (C) Freedom to decide. What should be. was. are. will be?
- (D) Freedom to feel. What one feels?
- (E) Freedom of always waiting for permission.

Choose the correct answer from the options given below:

- (A) (A), (B) and (D) only
- (B) (A), (B) and (C) only
- (C) (B), (C) and (D) only
- (D) (C), (D) and (E) only

42. Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A): Format and styles of referencing in thesis writing are enforced with a view to effect observance of formal protocols.

Reasons (R): Formal protocols ensure avoidance of deviations from norms and procedures of reporting research.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

43. "Destiny of India is being shaped in her classrooms", this is stated in

- (A) University Education Commission (1948)
- (B) Education Commission (1964)
- (C) National Education Policy (1986)
- (D) National Knowledge Commission (2005)

44. Given below are two statements:

Statement I: Wind farms are generally set up on exposed hilltops or coasts in remote areas.



Statement II: Wind velocities are steady in these remote locations.

In the light of the above statements. Choose the most appropriate answer from the options given below:

- (A) Both Statement I and Statement II are correct.
- (B) Both Statement I and Statement II are incorrect.
- (C) Statement I is correct but Statement II is incorrect.
- (D) Statement I is incorrect but Statement II is correct.

45. Given below are two statements:

Statement I: Research ethics forms a genuine concern for research to lend credibility in findings.

Statement II: Use of ICT in research is mandatory as it is economical in terms of time and use of resources.

In the light of the above statements. Choose the most appropriate answer from the options! given below:

- (A) Both Statement I and Statement II are correct.
- (B) Both Statement I and Statement II are incorrect.
- (C) Statement I is correct but Statement II is incorrect.
- (D) Statement I is incorrect but Statement II is correct.

Read the passage carefully and answer the questions that follow:

Through out much of the latter half of 20th Century. classroom discipline was focussed on the issue of how best to respond to student misbehaviour. The humanist and applied behaviour analysis approaches to classroom management shared the spotlight about equality during this period. Both of these traditions are primarily reactive rather than preventive systems of classroom management. That is they tend to provide solutions to misbehaviour after it occurs. not before. More recent research. however. has provided another approach to classroom management that frames the question of classroom order and discipline not in terms of reaction but prevention. This approach is based on classroom research that examined what effective teachers do to prevent misconduct and what less effective teachers do to create it. Some of this research involved observation and analysis of both experienced and inexperienced teachers while they taught. The major conclusion of this research was that more effective and less effective classroom managers can be distinguished more by what they do to prevent misbehaviour than how they respond to misbehaviour. In a study. 27 third grade teachers were recruited for a year-long observation study. During the first 3 weeks of school several types of information on each of the teachers including room-arrangement. classroom rules. consequences of misbehavior. response to inappropriate behaviour. consistency of teacher responses. monitoring, and reward systems was gathered. Further. the number of students was counted who were on task and off task at 15 minute intervals to determine the extent to which students were attending to the teacher. From this data the teachers were classified in two groups. One consisting of more effective managers and other consisting of less effective managers for more in depth observation the rest of the year. Those teachers who were categorized as more effective classroom managers were found to have significantly

higher student engagement rates and significantly lower student off task behavior during rest of the school year. The more effective managers established themselves as instructional leaders during first 3 weeks of the school year.

46. A teacher who emphasises the immediate reinforcement of positive behavior and punishment together is said to follow
- (A) Classroom management tradition
  - (B) Collaborative learning
  - (C) Applied Research Tradition
  - (D) Humanist tradition
47. According to classroom management theory on effective teacher
- (A) Addresses issues in the classroom
  - (B) Prevents the problem before occurring
  - (C) Discusses the problem after it has occurred
  - (D) Tries to respond to the problem after its occurrence
48. An effective teacher manager as per classroom management tradition
- (A) Advocates adherence to rules
  - (B) Focusses on changing or modifying inappropriate behavior
  - (C) Incorporates interventions that stress communication skills
  - (D) Incorporates classroom rules, consequences and routines to keep student actively engaged
49. A teacher who focuses on feelings, psychological needs and emotions of the individual learners is said to be following which tradition?
- (A) Humanist Tradition
  - (B) Applied Research Tradition
  - (C) Classroom Management Tradition
  - (D) Formal Discipline Tradition
50. A teacher is effective manager if s/he
- (A) Tries to respond to misconduct
  - (B) Tries to find the reason for misconduct
  - (C) Punishes the student(s) for misconduct
  - (D) Prevents the misconduct

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	A
2	C	27	D
3	B	28	C
4	D	29	B
5	C	30	D
6	B	31	C
7	B	32	D
8	C	33	B
9	A	34	A
10	C	35	A
11	D	36	----
12	C	37	D
13	D	38	C
14	D	39	C
15	B	40	A
16	D	41	A
17	D	42	A
18	B	43	B
19	C	44	C
20	D	45	C
21	D	46	C
22	D	47	B
23	A	48	D
24	A	49	A
25	B	50	D



The earlier you start working on  
something, the earlier  
you see result  
**NEVER QUIT**

## 04-01-2022 SOCIO\_ FN

Study the table carefully to answer the question that follows :

The given table has the number of boys and girls (in hundreds) in 5 different years in 4 different schools (A, B, C, D) (M-Boys, F-Girls).

School → ↓ Year	A		B		C		D	
	M	F	M	F	M	F	M	F
2016	4.2	4.7	6.3	4.2	5.6	3.5	7.6	7.7
2017	7.7	5.3	5.9	3.3	4.4	5.5	6.6	4.7
2018	10.4	7.9	5.7	5.3	5.9	6.4	3.8	3.5
2019	6.5	10.7	7.4	6.5	6.3	4.3	6.5	6.8
2020	9.5	11.9	8.6	6.9	7.6	5.4	7.9	7.6

- Which school has the minimum percentage increase in total student enrollment (both boys and girls) from 2019 to 2020?  
(A) A  
(B) B  
(C) C  
(D) D
- Which school has the lowest number of girl students enrolled during 2016-2020?  
(A) A  
(B) B  
(C) C  
(D) D
- Which school has the maximum number of boys enrolled during 2016-2020?  
(A) A  
(B) B  
(C) C  
(D) D
- Which year has the minimum number of girls enrolled during 2016-2019?  
(A) 2016  
(B) 2017  
(C) 2018  
(D) 2019
- Find out the difference between the number of boys in School A and School B during 2016-2020.  
(A) 440  
(B) 445

- (C) 450
- (D) 460

6. Given below are two statements

Statement I: Value development requires conscious, planned and deliberate attempts by the school and the teachers.

Statement II: Values needed for sustainable development cannot be taught in a school setting.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

7. Identify the correct sequence to join a Google Meet session

- A. Enter code and click continue
- B. Click ASK to join
- C. Click use a meeting code
- D. Go to meet.google.com
- E. When someone in the meeting gives you access you will join it.

Choose the correct answer from the options given below:

- (A) A, B, D, C, E
- (B) D, A, E, B, C
- (C) D, C, A, B, E
- (D) E, A, B, C, D

8. When an unperceived fact is supposed in order to resolve an apparent contradiction in the presented phenomenon, which one of the following pramaṇas is employed according to Advaitins?

- (A) Arthā patti
- (B) Pratyakṣa
- (C) Anumāṇa
- (D) Anupalabdhi

9. The main concept behind solar ponds to store the solar energy is

- (A) Fixed salt gradient from surface to bottom in the pond
- (B) Presence of sand in the pond
- (C) Presence of solar cells in the pond
- (D) Uniform salinity of pond

10. Which among the following is a MOOC platform?

- (A) Coursera
- (B) Google Meet

- (C) Jitsi Meet
- (D) Urkund

11. Ethnography refers to

- (A) A measure that is employed to refer to a concept when no direct measure is available
- (B) A research design that rules out alternative causal explanations of findings deriving from it
- (C) A research method where the researcher immerses himself/herself in a social setting for an extended period of time for providing an account of particular culture, society or community
- (D) An attribute in terms of which cases do not differ.

12. Given below are two statements

Statement I: The length and breadth of a rectangle are increased by 10% and 20% respectively, then its area increases by 23%.

Statement II: In 12 hours, the hour hand and the minute hand coincide 11 times.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

13. Which one of the following is an example of 'Pull Technology' form of communication?

- (A) Social media sites
- (B) Websites delivered to browser on search
- (C) Websites that are advertised
- (D) Websites that are not alive

14. Match List I with List II

List I - Devices	List II - Example
A. Input devices	I. Radio frequency identification readers
B. Direct data entry	II. DVD
C. Output devices	III. Joysticks
D. Data backup	IV. Speakers

Choose the correct answer from the options given below:

- (A) A - I, B - III, C - II, D - IV
- (B) A - III, B - I, C - IV, D - II
- (C) A - IV, B - I, C - II, D - III
- (D) A-II, B - I, C - III, D - IV

15. Which of the following is a physical/environmental barrier to communication?

- (A) Culture
- (B) Personality
- (C) Power/authority
- (D) Time

16. Post-positivism is related to which one of the following philosophies?  
(A) Critical Realism  
(B) Empiricism  
(C) Objectivism  
(D) Subjectivism
17. A lady is reflecting on the causes of the environmental crisis. She is considering and attempting to link varied variables to make sense of the issue. This scenario is an example of  
(A) Didactic communication  
(B) Interpersonal communication  
(C) Intrapersonal communication  
(D) Mass communication
18. Given below are two statements  
Statement I: The aim of Naiyāyikas in formulating the anumāna theory is to obtain pramā (right knowledge).  
Statement II: The aim of Naiyāyikas in formulating the anumāna theory is to verify only and only formal validity.
- In light of the above statements, choose the correct answer from the options given below:  
(A) Both Statement I and Statement II are false  
(B) Both Statement I and Statement II are true  
(C) Statement I is false but Statement II is true  
(D) Statement I is true but Statement II is false
19. Following are the statements regarding a Repeater  
A. It distributes the data packets  
B. It is added to transmission systems to boost the signal  
C. It sends the data to a specific computer  
D. It can also be used on wireless systems
- Choose the correct answer from the options given below:  
(A) A and D only  
(B) A, B and C only  
(C) B and D only  
(D) C and D only
20. The average of first 100 positive integers is  
(A) 49  
(B) 50  
(C) 50.5  
(D) 51.5
21. What per cent decrease in salaries would exactly cancel out the 20% increase?  
(A)  $21\frac{1}{3}\%$



- (B)  $18\frac{2}{3}\%$   
 (C)  $16\frac{2}{3}\%$   
 (D) 20%

22. Identify the correct phases of activity for the Advance Organiser Model.

- A. Presentation of curriculum embedding  
 B. Presentation of advance organiser  
 C. Presentation of study groups  
 D. Presentation of learning task or material  
 E. Strengthening cognitive organisation

Choose the correct answer from the options given below:

- (A) A, B and C only  
 (B) B, C and D only  
 (C) B, D and E only  
 (D) C, D and E only

23. What comes next in the following sequence? 5, 16, 51, 158, ?

- (A) 387  
 (B) 481  
 (C) 482  
 (D) 487

24. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: The aim of education in ancient India was not just the acquisition of knowledge but preparation for life in this world beyond schooling.

Reason R: Ancient Indian education laid emphasis on complete realisation and liberation of self.

In light of the above statements, choose the most appropriate answer from the options given below

- (A) A is correct but R is not correct  
 (B) A is not correct but R is correct  
 (C) Both A and R are correct and R is the correct explanation of A  
 (D) Both A and R are correct but R is NOT the correct explanation of A

25. Match List I with List II

List I - Human ability per Gardener's theory of Multiple Intelligence	List II - Skills
A. Linguistic	I. Ability to appreciate and produce rhythm, tone, pitch and timbre
B. Logical-mathematical	II. Ability to handle long chains of reasoning

C. Musical	III. Ability to recognise plants and animals
D. Naturalist	IV. Sensitivity to different functions of language

Choose the correct answer from the options given below:

- (A) A - I, B - III, C - IV, D - II
- (B) A - III, B - IV, C - II, D - I
- (C) A - IV, B - II, C - I, D - III
- (D) A-II, B - I, C - III, D - IV

26. Arrange the following components of municipal solid waste in order of their increasing abundance.

- A. Paper and Cardboard
- B. Food
- C. Tin Cans
- D. Dirt and Ash
- E. Textiles

Choose the correct answer from the options given below:

- (A) C, E, D, B, A
- (B) E, C, A, D, B
- (C) E, C, D, A, B
- (D) E, C, D, B, A

27. Biochemical Oxygen Demand (BOD) is a key indicator of the process performance of waste water treatment plant. The plant is said to be efficient, when BOD:

- (A) Decreases
- (B) Increases for first 36 hours
- (C) Increases
- (D) Remains unchanged

28. Which one of the following sections of the UGC Act is concerned with the promotion and coordination of university education for the maintenance of standards of teaching examination and research?

- (A) Section 12
- (B) Section 14
- (C) Section 25
- (D) Section 28

29. Disaster Management Act came into existence in

- (A) 1985
- (B) 1992
- (C) 2000
- (D) 2005

30. Over the past 100 years, the estimated rise of global sea level is by 10 to 25 cms or more. This is attributed to which of the following?
- A. Thermal contraction of ocean water
  - B. Melting of glaciers and small ice caps
  - C. Thinning of the Greenland ice sheet
  - D. Changes in terrestrial water storage

Choose the correct answer from the options given below:

- (A) A, B and C only
  - (B) A, C and D only
  - (C) B and C only
  - (D) B, C and D only
31. Given below are two statements
- Statement I: Type I Error refers to the decision to reject the null hypothesis when it is incorrect.
- Statement II: Sampling error occurs due to the violation of the principle of random sampling.
- In light of the above statements, choose the correct answer from the options given below:
- (A) Both Statement I and Statement II are false
  - (B) Both Statement I and Statement II are true
  - (C) Statement I is false but Statement II is true
  - (D) Statement I is true but Statement II is false
32. Identify the correct sequence for successful communication.
- (A) Sender → Encode message → Channel → Decode message → Audience → Feedback
  - (B) Sender → Encode message → Decode message → Channel → Audience → Feedback
  - (C) Sender → Encode message → Audience → Channel → Decode message → Feedback
  - (D) Sender → Encode message → Channel → Decode message → Feedback → Audience
33. The number of bits in IPv6 addressing are:
- (A) 128 bits
  - (B) 256 bits
  - (C) 32 bits
  - (D) 64 bits
34. A Network Interface Card (NIC) contains
- (A) Domain address
  - (B) IP address
  - (C) MAC address
  - (D) Port address
35. The main reason for low enrollment in vocational education courses in India is
- (A) High fee structure
  - (B) Lack of adequate infrastructure to impart Vocational education
  - (C) Unavailability of large number of vocational courses

(D) Wrong perception of vocational education among students and parents

36. What per cent of the children's brain development occurs prior to 6 years?

- (A) 25%
- (B) 45%
- (C) 65%
- (D) 85%

37. Given below are two statements

Statement I: Operant conditioning was discovered by Thorndike.

Statement II: Classical conditioning was discovered by Ivan Pavlov.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

38. Which of the following statements are correct?

- A. The product of two integers is 500 and their difference is 5. Then, one of the numbers is 25.
- B. The HCF of 108, 288 and 360 is 18.
- C. The least number which is exactly divisible by each one of the given numbers is called their LCM.

Choose the correct answer from the options given below:

- A and B only
- A and C only
- B and C only
- C only

39. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Generalisation of a finding is possible only in quantitative studies.

Reason R: Quantitative studies make use of deductive reasoning.

In light of the above statements, choose the correct answer from the options given below:

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

40. Given below are two statements regarding Wireless Access Points (WAPs).

Statement I: WAPs are connected into the wired network at fixed locations.

Statement II: The WAP receives and transmits data between the two wired LANs.

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are false
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

41. Which of the following statements are correct with reference to argument by analogy?

- A. It is a deductive type of argument
- B. It is an inductive type of argument
- C. It is not intended to be mathematically certain
- D. It is to be classified as either valid or invalid
- E. Its conclusion does not follow from the premises with logical necessity

Choose the correct answer from the options given below:

- (A) A, C and D only
- (B) A, D and E only
- (C) B, C and E only
- (D) B, D and E only

42. Which among the following are statistical packages?

- A. SPSS
- B. SAS
- C. ANOVA
- D. STATA
- E. R

Choose the correct answer from the options given below:

- (A) A, B, C and D only
- (B) A, B, C and E only
- (C) A, B, D and E only
- (D) B, C, D and E only

43. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Quality questions promote deep learning.

Reason R: The quality of questions asked determines a teacher's level of success with a lesson.

In light of the above statements, choose the correct answer from the options given below:

- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

44. Match List I with List II

List I – In a Square of Opposition	List II - Resultant
A. If 'Some girls are shy' is True	I. 'E' and 'I' propositions are Undetermined
B. If 'All men are Tall' is False	II. 'A' and 'O' are Undetermined
C. If 'No crows are white' is True	III. 'E' proposition is False; 'I' proposition is True
D. If 'some flowers are not fragrant' is False	IV. 'A' proposition is False; 'O' proposition is True

Choose the correct answer from the options given below:

- (A) A - I, B - III, C - IV, D - II  
 (B) A - II, B - I, C - IV, D - III  
 (C) A - III, B - IV, C - I, D - II  
 (D) A - IV, B - II, C - I, D - III

45. Identify the fallacy committed in the argument.

All household pets are domestic animals.

No unicorns are domestic animals.

Therefore, some unicorns are not household pets.

- (A) Existential fallacy  
 (B) Fallacy of Four terms  
 (C) Fallacy of Illicit Major  
 (D) Fallacy of Illicit Minor

Read the given passage and answer the question that follows :

Let us try to explain social life as the pursuit of pleasure and the avoidance of pain. You will soon be saying that the hedonist begs the question, for even supposing that man does pursue these ends, the crucial problem of why he thinks one course rather than another likely to produce pleasure, is untouched. Does the guidance of man's conscience explain? How then does he happen to have the particular conscience which he has. The theory of economic self-interest? But how do men come to conceive their interest in one way rather than another? The desire for security or prestige or domination or what is vaguely called self-realization? How do men conceive their security, what do they consider prestige, how do they figure out the means of domination, or what is the notion of self which they wish to realize? Pleasure, pain, conscience, acquisition, protection, enhancement mastery are undoubtedly names for some of the ways people act. There may be instinctive dispositions which work toward such ends. But no statement of the end or any description of the tendencies to seek it, can explain the behavior which results. The very fact that men theorize at all is proof that their pseudo-environments, their interior representations of the world, are a determining element in thought, feeling, and action. For, if the connection between reality and human response were direct and immediate, rather than indirect and interred indecision and failure would be unknown and (if each of us fitted as snugly into the world, as the child in a womb), Mr. Bernard Shaw would not have been able to say that except, for the first nine months of its existence, no human being manages its affairs as well as a plant.

46. If the connect between reality and human response is direct, it will result in

- (A) Acquisition of prestige

- (B) Self-realisation
- (C) Successful actions
- (D) Useful theorisation

47. The thoughts of men are decided by
- (A) Societal tendencies
  - (B) Their behaviour
  - (C) Their environment
  - (D) Their inner perception of the world
48. The gist of the passage is that the human behaviour is dictated by
- (A) Choices for pleasure
  - (B) Emotional vagueness
  - (C) Seeking smugness in a false world
  - (D) The harsh realities of the world
49. A man's course of action is guided by
- (A) Collective action
  - (B) Critical evaluation of choices
  - (C) Pursuit of self-interest
  - (D) The thought of social welfare
50. What is the main issue when man pursues hedonistic goals?
- (A) Multiple preferences
  - (B) One's own conscience
  - (C) Seeking pleasure self
  - (D) Single course of choice

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	D
2	C	27	A
3	A	28	A
4	B	29	D
5	A	30	D
6	C	31	A
7	C	32	A
8	A	33	A
9	A	34	C
10	A	35	D
11	C	36	D
12	C	37	D
13	B	38	B
14	B	39	D
15	D	40	D
16	A	41	C
17	C	42	C
18	D	43	D
19	C	44	B
20	C	45	A
21	C	46	C
22	C	47	D
23	B	48	C
24	C	49	C
25	C	50	D



Don't believe in luck,  
Believe in hard work  
**YOU WILL**



## 05-12-2021 SO-WORK\_ FN

The following table presents the percentage (V.) distribution of students of UG and PG levels in seven different colleges (A-G) in a city during the academic session 2020-21. There is a total number of 52.000 students in all colleges including 27,300 students of UG level. Based on the data in the table, answer the question .

College — wise percentage (%) of students at

College	Parentage (%) of students at	
	UG Level	PG Level
A	17%	8%
B	12%	15%
C	11%	12%
D	13%	13%
E	18%	14%
F	14%	21%
G	15%	17%

- How many students of colleges A and F taken together are studying at UG level?  
(A) 7516  
(B) 8463  
(C) 9127  
(D) 9404
- Total number of students studying at PG level from the colleges B and C taken together is :  
(A) 5601  
(B) 5944  
(C) 6669  
(D) 7004
- What is the total number of UG and PG level students in the college E?  
(A) 8320  
(B) 9116  
(C) 7916  
(D) 8376
- What is the ratio between the number of students studying at PG level from the college F and the number of students studying at UG level from the college D?  
(A) 13 : 19  
(B) 21 : 13  
(C) 13 : 8  
(D) 19 : 13
- What is the ratio between the number of students studying at PG and UG level respectively from the college F?  
(A) 14 : 19  
(B) 19 : 21  
(C) 17 : 21  
(D) 19 : 14

"Environmentalists accuse us of blocking the plan to convert Antarctica into a World park. In fact nothing could be further from the truth. Antarctica is a huge continent teeming with life. It is home to millions of penguins, seals, seabirds and sea lions. Also great schools of finfish and whales inhabit its coastal waters."

6. Which fallacy is committed in the above argument?

- (A) Red Herring
- (B) Strawman
- (C) Hasty generalization
- (D) Slippery slope

7. Ozone layer depletion is on account of:

- (A) Chlorinated hydrocarbons
- (B) Sulphur containing compounds
- (C) Carbon monoxide
- (D) Nitrogen containing fertilizers

Choose the correct answer from the options given below:

- (A) (A), (C), (D) only
- (B) (A), (B), (C) only
- (C) (A), (D) only
- (D) (A), (B), (C), (D)

8. High values of which of the following parameters indicate good-quality water?

- (A) Dissolved oxygen (DO)
- (B) Chemical oxygen Demand (COD)
- (C) Biochemical oxygen Demand (BOD)
- (D) Conductivity

9. Given below are two statements:

Statement I: A blended course is a traditional course of instruction incorporated with online materials and/or intermittent online discussion.

Statement II: A wiki is not a representation of a collaborative tool and website where users assigned in groups can create content collaboratively and where a teacher can monitor their work.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

10. The Campus Wide Network in a University includes a firewall. Which one of the following a firewall used for?

- (A) Deleting data from a network
- (B) Restricting access to a network
- (C) Encrypting network data
- (D) Collecting transactional data

11. Given below are two statements:

Statement I An argument form that allows for a substitution instance having true premises and a false conclusion is an invalid form

Statement II: Any arguments having true premises and a false conclusion is an invalid argument

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

12. The National water mission under climate Action plan of Government of India seeks to improve water use efficiency by

- (A) 10%
- (B) 30%
- (C) 20%
- (D) 30%

13. Modeling is a direct teaching activity that allows students to imitate from demonstration or infer from observation, the behaviour to be learned Identify the correct anquence for modeling

- (A) Production
- (B) Attention
- (C) Motivation
- (D) Retention

Choose the correct answer from the options given below.

- (A) (A), (B), (C), (D)
- (B) (C), (A), (D), (B)
- (C) (B), (D), (A), (C)
- (D) (B), (A), (C), (D)

14. Arrange the following solar cell base materials in order of their Band gap energy:

- (A) Silicon (Si)
- (B) Germanium (Ge)
- (C) Gallium Arsenide (Ga As)
- (D) Cadmium Sulphide (CdS)

Choose the correct answer from the options given below

- (A) (A) > (B) > (D) > (C)
- (B) (D) > (C) > A > (B)
- (C) (A) > (B) > (C) > (D)
- (D) (D) > (A) > (C) > (B)

15. Millennium Development Goal 8- To develop global partnership for development has the following targeta:

- (A) To address special needs of least developed countries.

- (B) To halve by 2015 the proportion of population without sustainable access to safe drinking water and basic sanitation.
- (C) To deal exhaustively with debt problem of developing nations.
- (D) To provide access to affordable essential drugs in developing world in collaboration with private sector
- (E) To have significant improvement in the lives of 100 mn slum dwellers.

Choose the correct answer from the options given below

- (A) (A), (C), (D), (E) only
- (B) (A), (C), (D) only
- (D) (B) (D), (E) only
- (C) (C), (D), (E) only

16. Given below are two statements

Statement I: UGC has been established by an act of Indian parliament to regulate the quality of higher education Statement II

The executive council of a Central University is empowered to decide the minimum qualification for the recruitment of the faculty.

In the light of the above statements, choose the most appropriate answer from the options given below a

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I incorrect but Statement II is correct

17. Cost price of two mobile phones is same. One is sold at a profit of 30% and the other for 6300 more than the first. If the net profit is 40%. Find the cost price of each mobile.

- (A) 42,500
- (B) 50,000
- (C) 25,500
- (D) 31,500

18. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?

- (A) 4
- (B) 10
- (C) 16
- (D) 20

19. Given below are two statements:

Statement I: A copy of the email is sent to a Cc (Carbon copy) address and other recipients can see that address.

Statement II: A copy of the email is sent to a Bcc (Blind carbon copy) address but other recipients cannot see that address.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true

- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

20. Given below are two statements :

Statement I The example (udiharan) is a special feature of the Nyaya syllogism and it illustrates the truth that the universal major premise is the result of a real induction.

Statement II: Induction in Nyaya conception of inference is based on the law of causation and induction and deduction cannot really be separated.

In the light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

21. Given below are two statements

Statement I: Frames can be a causal factor in decoding educational information.

Statement II: The social background of the learners also influences their frames.

In the light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

22. Match List I with List II:

List I	List II
(A)UGC	(I)Medicine
(B)AICTE	(II) Teacher Education
(C)NCTE	(III) General Education
(D) MCI	(IV) Technical Education

Choose the correct answer from the options given below.

- (A) (A)-(I) (D). (B) (III). (C)-(D). (D) (IV)
- (B) (A) (I). (B)(II), (C) IV). (D) (III)
- (C) (A) (III). (B) (IV), (C)-(II), (D-I)
- (D) (A) (IV). (B) (DC) (HD) (D) (II)

23. All animals with such and such features are either bisons or buffalos

This animal has those features and it is not a hison. Therefore it is a buffalo. According to Nyaya school this argument exemplifies which one of the following pramanas (instrument of knowledge)

- (A) Upamāna (Comparison)
- (B) Sabda (Verbal authority)
- (C) Anumina (inference)
- (D) Arthāpatti (Postulation)

24. Match List I with List II:

List I	List II
Models of communication	Characteristic feature
(A) Mathematical model	I. Perceiving
(B) Circular model	II. Global village concept.
(C) Medium-centric model	III. Linear
(D) Selectivity model	(IV) Decoder becomes encoder

Choose the correct answer from the options given below:

- (A)-(II), (B)-(IV), (C) -(I) ( D)-(III)
- (B) A -(IV). (B) -( 1) , (C) – (III) , (D)-(II)
- (A)- (I), (B) –(11) , (C) – (111) , (D) –(1V)
- (A) – (111) , (B) – (1V) , (C) – (11) , (D)-(1)

25. Consider the following statements regarding clocks:

- (A) When the hands are in opposite directions, they are 30 minute spaces apart  
(AND)
- (B) The hands are in same straight line when they are co incident or opposite to each other.
- (C) If a clock indicates 8:45, when the correct time is 9:00 it is said to be 15 minutes too Fast

Choose the correct statements from above:

- (A) (A) and (C) only
- (B) (A) and (B) only



- (C) (B) and (C) only  
(D) (A), (B) and (C)

26. Given below are two statements:

Statement 1: If a person covers a certain distance at a kmph and an equal distance at by kmph. Then, the average speed during the whole Journey is  $(x+y / 2xy)$  kmph.

Statement II: If the ratio of the speeds of x and y is ach, then the ratio of the respective time taken by them to cover the same distance is b:a

In the light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are true  
(B) Both Statement I and Statement II are false  
(C) Statement I is true but Statement II is false  
(D) Statement I is false but Statement. II is true.

27. Given below are two statements:

Statement 1: Reflexivity refers to the manner in which speech and action are part of the social world in which they are situated.

Statement II: The term reflexivity is a slippery concept because of ‘ For and against’

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true  
(B) Both Statement I and Statement II are false  
(C) Statement I is true but Statement II is false  
(D) Statement I is false but Statement II is true

28. Match the list

List I	List II
Statistical test	Statistical test Application
(A) Chi-square	(I) Is used to determine the significance between group means.
(B) t-test	(II) A procedure to decompose variation into two or more independent variables.
(C) ANOVA	(III) Analyses the relationship between two or more independent variables and a single dependent variable.
(D) Multiple regression	(IV) Produces a value that reflects the relationship between expected and observed frequencies.

Choose the correct answer from the options given below :



- (A) (A)-I, (B)-(II), (C)-(III), (D) (IV)
- (B) (A) (II), (B) (III) (C) IV), (D) (D)
- (C) (A) (III), (B) (V), (C)-(D. (D) (II)
- (D) (A)-IV (B)-(I) (C)-(II), (D)-III)

29. The ethical considerations in research include:

- (A) Free copying from books and journals
- (B) Informed consent
- (C) Avoiding plagiarism
- (D) Proper referencing
- (E) Privacy as an insignificant issue

Choose the correct answer from the options given below

- (A) (B), (C), (D) only
- (B) (A) (B) (C) only
- (C) (C), (D), (E) only
- (D) (A) (D) (E) only

30. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R)

Assertion (A) : A bitmap file format (BMP) is not suitable for graphics on a website.

Reason (R): Bitmap graphics store information about every individual picture element (pixel) making up an image, thereby giving quite large files

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- (C) A is true but (R) is false
- (D) A is false but (R) is true

31. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R)

Assertion (A): The Central Government of our country is trying to increase access to higher education

Reason (R) : The public – funded universities and colleges can accommodate only a limited number of students .

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)
- (C) (A) is correct but (R) is not correct
- (D) (A) is Not correct but (R) is correct

32. Which of these is not related to podcasting?

- (A) Audio
- (B) Spotify
- (C) Microsoft excel
- (D) Microphone

33. Consider the series "tiger, feline, mammal, animal". Which of the following statements is/are true with reference to this series?

- (A) It is in order of increasing intension
- (B) It is in order of increasing extension
- (C) It is in order of decreasing intension
- (D) It is in order of decreasing extension

Choose the correct answer from the options given below :

- (A) (A) and (D) only
- (B) (B) only
- (C) (B) and (C) only
- (D) (D) only

34. Which of the following file format contains exclusively the ASCII file format?

- (A) PDF
- (B) RTF
- (C) JPG
- (D) CSV
- (E) TXT

Choose the correct answer from the options given below:

- (A) (A), (B) and (D) only
- (B) (B), (D) and (E) only
- (C) (A), (C) and (D) only
- (D) (C), (D) and (E) only

35. Identify the examples of Active learning:

- (A) Students discuss, debate or brainstorm during class
- (B) Student a work as team on problems and projects
- (C) Students engage in inquiry based learning
- (D) Students are exposed to case-based studies.

Choose the most appropriate answer from the options given below:

- (A) (A) only
- (C) (A), (C) and (D) only
- (B) (A), (B) and (D) only
- (D) (A) and (D) only

36. Identify the correct order of the following computer storage devices in order of speed of data retrieval from fastest to slowest.

- (A) Hard Disk
- (B) Main Memory
- (C) CD-ROM

Choose the correct answer from the options given below :

- (A) (B), (C), (A)
- (B) (C), (A), (B)
- (C) (A), (C), (B)
- (D) (B), (A), (C)

37. A variable not described by a predictor is called :

- (A) Exogenous variable
- (B) Non-Predictive variable
- (C) Effect variable
- (D) Manipulative variable

38. According to the stages of cognitive development suggested by Piaget, the earliest period is called as :

- (A) Formal operational
- (B) Existential
- (C) Sensori motor
- (D) Verbalizer

39. a persuasion plan of an educational communicator involves :

- (A) Sequencing of ideas
- (B) Repeated emphasis
- (C) Choice of words
- (D) Reference line
- (E) Personalisation of issues

Choose the correct answer from the options given below :

- (A) (A). (C). (D) only
- (B) (A). (B). (C) only
- (C) (B), (C), (D) only
- (D) (C), (D), (E) only

40. Given below are two statements :

Statement I : As per the preamble to the constitution, India is a secular country.

Statement II : Setting up educational institutions by religious minority communities is against the constitution.

In the light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

41. In how many years will a sum of 800 at 10% per annum compounded semi annually become 926.10?

- (A)  $5/2$  years
- (B)  $3/2$  years
- (C)  $2/3$  years
- (D)  $4/3$  years

42. The sequence of steps in organizing written material for communication is :

- (A) Read over
- (B) Evaluate
- (C) Jot down points
- (D) Construct an outline
- (E) Describe

Choose the correct answer from the options given below :

- (A) (A), (B), (C), (D), (E)
- (B) (C), (A), (B), (D), (E)
- (C) (C), (D), (A), (E), (B)
- (D) (B), (A), (D), (E), (C)

43. Who is the Visitor of all the Central Universities?

- (A) Education Minister of India
- (B) UGC chairman
- (C) The President of India
- (D) The Chief Justice of India

44. Do not expect to have everything buttoned up in your mind before hand'. This is very much true in the context of :

- (A) Article writing
- (B) Delivery of speech
- (C) Conducting an interview
- (D) Supplying background information

45. prediction regarding 'relationships involving theoretical constructs' is known as :

- (A) Directional hypothesis
- (B) Relational hypothesis
- (C) Conceptual hypothesis
- (D) Operational hypothesis

Read the following passage and answer question

Poor self-images of the worst kind are created, or enlarged, when teachers, people in authority or even the general public come in contact with the underprivileged members of the society in a manner that produces inferiority feeling in them. It does not take much imagination to know that the stereotype portrayed would lead to a feeling of inferiority. Another cause of a poor self-image is the tendency to confuse failure in a project with a failure in life. A child who fails a subject in school or who does not make the team, makes the mistake of identifying a single failure with failure in life itself. This is tragically reinforced many times by teachers and for parents. Once the poor self-image slide starts, the natural tendency is to feed the inferiority feeling. Many people do this when they castigate themselves because they can't remember everything they hear and everybody they meet, which brings us to the cause of an untrained memory. For the moment, there are two warming thoughts which will give you a lot of comfort. First, a perfect memory does not indicate a great mind any more than a huge dictionary, with all the words in it, represents a great piece of literature. Second, the person who cannot remember is infinitely better off than the one who can't forget. These two thoughts are temporarily comforting, but do not hang your hat on them. Actually there is no such thing as a 'good' memory or a 'bad' memory. It is either trained or untrained. The choice of whether you train it or leave it untrained is up to you. One more cause of a self-image is an unrealistic

and unfair comparison of experiences. We exaggerate others' successful experience and downgrade our own success. Experience has nothing to do with ability.

46. When people start castigating themselves, they :
- (A) Self — feed the inferiority feeling
  - (B) to ameliorate the suffering
  - (C) Lose the power of reasoning
  - (D) Make efforts to improve their images
47. What is the normal reaction of the people to failures?
- (A) Ignore the failures
  - (B) Sympathising with the slide
  - (C) Projecting a single failure as failure in life
  - (D) Social ostracisation against failures
48. The passage seeks to focus on the importance of :
- (A) Good memory
  - (B) Untrained mind
  - (C) Factors determining image self
  - (D) Experience against ability
49. Poor self — images are the products of :
- (A) Group belongingness
  - (B) Contracted inferiority feelings
  - (C) Social power equations
  - (D) Attitudes of teachers
50. A 'great mind indicates :
- (A) Perfect memory
  - (B) Success in life
  - (C) The people he/she meets
  - (D) Trained or untrained mind

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	D
2	C	27	A
3	D	28	D
4	D	29	A
5	D	30	A
6	A	31	B
7	C	32	C
8	A	33	C
9	C	34	B
10	B	35	A
11	A	36	D
12	C	37	A
13	C	38	C
14	B	39	A
15	B	40	C
16	C	41	B
17	D	42	B
18	C	43	C
19	A	44	C
20	A	45	C
21	A	46	A
22	C	47	C
23	A	48	C
24	D	49	B
25	B	50	D



We aim about the  
mark to hit the mark  
**GO GET IT**

20-11-2021 TRSM\_ FN

Read the passage carefully and answer the question that follow

India is one of the world's largest repositories of music, dance, theatre, folk traditions, songs, performing arts, rites and rituals, paintings and writings that are known, collectively as "Intangible Cultural Heritage". India's cultural heritage is a source of inspiration to people everywhere. India's century old cultural exchanges with South East Asia continue to inspire people-to-people relationships. There is a visible impact of the Indian heritage on the scriptures and the way of life of the people of the Mekong region. There is deep conviction about the Buddhist traits of humility, gentleness, justice and charity. There are many similarities in languages of the region and Sanskrit. The Panchatantra and Jataka tales are narrated with great enthusiasm and are part of folklore. The Ramayan culture is visible all across South East Asia.

The common culture binding India with South East Asian Countries apart from Buddhism is the great epic of Ramayana. Angkor Wat has the great Ramayana Panel depicting the battle between Vanaras and the Asuras.

SAARC remains an important component of India's cultural diplomacy representing multilateralism and people to people contacts. People to people exchanges are being promoted amongst the BRICS countries with the BRICS Culture Ministers meetings laying down the road map for collaboration. Cultural exchanges amongst the Member Nations of the Shanghai Cooperation Organisation is also being actively promoted in the fields of tourism, education, science, archeology, music, dance and yoga.

India's soft power status varies with the regions. In South East Asia, Buddhism links India to the people of the region.

In the Indian Ocean countries, Project Mausam (the monsoon) linked the people to common traits. There are several new links that have emerged – cricket ties with Australia and South Africa represented by Cricket connects exhibitions. The theoretical framework for the formulation of India's soft power status is best represented in the Government's new ideas – Digital India, Business Promotion, Yoga Diplomacy.

UNESCO has also focused on building Peace through Cultural Diplomacy. The influence of – Mahatma Gandhi, Nelson Mandela and Martin Luther King Jr around the world, and the popularity of their ideas of harmonious co-existence amongst various layers of society is considerable.

1. The passage highlights

- (A) The emergence of India as a super power
- (B) The role of culture for peace and harmonious relations with other countries
- (C) India's cultural hegemony
- (D) India's relations with BRICS countries

2. The common thread binding India and South East Asian Countries is/are

- (A) Buddhist tenets
- (B) Yoga
- (C) Cricket
- (D) Sanskrit



Choose the correct answer from the options given below:

- (A) (A) only
- (B) (A), (B), (C) and (D) only
- (C) (A) and (D) only
- (D) (A), (B), (D) and (E) only

3. Cultural exchanges amongst the member nations of the Shanghai Cooperation Organisation are in the following fields:

- (A) Archaeology
- (B) Folklore
- (C) Tourism
- (D) Yoga
- (E) Education

Choose the correct answer from the options given below:

- (A) (A), (C), (D) and (E) only
- (B) (A), (B), (C) and (E) only
- (C) (A), (B) and (E) only
- (D) (B), (C), (D) and (E) only

4. Which of the following is not reflective of India's soft power status?

- (A) Digital India
- (B) Skill India
- (C) Business Promotion
- (D) Yoga Diplomacy

5. India's cultural diplomacy is centered around

- (A) Ramayan
- (B) Multilateral engagements
- (C) Business Promotion
- (D) People to people contacts

Choose the correct answer from the options given below :

- (A) (A) and (D) only
- (B) (A), (C) and (D) only
- (C) (B), (C) and (D) only
- (D) (B) and (D) only

Consider the following table that shows the percentage (%) distribution of the number of the personal computers (PCs) sold by a dealer from July to December -2019 and the ratio between the number of the PCs sold of HP and DELL companies during the same six months . total number of PCs sold in all this six months put together is 45000. Based on the data contained on the table , answer the question

Month-wise Distribution of sale of PCs

Months	Sale of PCs	
	Percentage (%)distribution	ratio of HP to DELL
July	17%	8:7
August	22%	4:5
September	25%	3:2
October	8%	7:5
November	12%	7:8
December	16%	7:9

6. If 35% of the PCs sold by Company HP during November were sold at a discount, then how many PCs of Company HP during that month were sold without a discount?  
 (A) 882  
 (B) 1635  
 (C) 1638  
 (D) 885
7. If the dealer earned a profit of Rs. 433 on each PC sold of Company DELL during October, then what was his total profit earned on the PCs of that company during the same month?  
 (A) 6,49,900  
 (B) 6,45,900  
 (C) 6,49,400  
 (D) 6,49,500
8. What is the ratio of the number of PCs sold of Company DELL during July to those sold during December of the same company?  
 (A) 119 : 145  
 (B) 116 : 135  
 (C) 119 : 135  
 (D) 119 : 130
9. The number of PCs sold of Company HP during July is approximately what percent (%) of The number of PCs sold of Company HP during December?  
 (A) 110%  
 (B) 140%  
 (C) 150%  
 (D) 130%
10. What is the total number of PCs sold by Company DELL during August and September together?  
 (A) 10000  
 (B) 15000  
 (C) 10500  
 (D) 9500
11. “All radically egalitarian societies are societies that do not preserve individual liberties”.
- Which of the following statements is true with reference to the above statement?
- (A) “No radically egalitarian societies are societies that preserve individual liberties” is

obverse of the given statement and it is logically equivalent.

- (B) “No radically egalitarian societies are societies that preserve individual liberties” is obverse of the given statement and it is not logically equivalent.
- (C) “Some radically egalitarian societies are societies that preserve individual liberties” is converse of the given statement and it is logically equivalent.
- (D) “Some radically egalitarian societies are not societies that preserve individual liberties” is converse of the given statement and it is logically equivalent.

12. The key behaviour of an effective teacher is marked by which of the following features?

- (A) Structuring
- (B) Teacher task orientation
- (C) Instructional Variety
- (D) Lesson clarity
- (E) Probing

Choose the correct answer from the options given below :

- (A) (A), (B) and (C) only
- (B) (A), (C) and (D) only
- (C) (B), (C) and (D) only
- (D) (C), (D) and (E) only

13. Given below are two statements :

Statement I : Appropriate word choice is an essential of effective oral communication.

Statement II : Facial expression and postures fall under visual communication.

In the light of the above statements, Choose the correct answer from the options given below :

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.

14. Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R

Assertion (A): ‘Teaching’ involves critical and creative interchanges between teacher and learner and hence it is different from ‘instruction’ and ‘training’.

Reason (R): Both ‘instruction’ and ‘training’ are directed at lower order cognitive interchanges.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

15. Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A) : Mankind’s interaction with Earth has led to a highly complex and diverse ecosystem to an increasingly degraded environment.

Reason (R) : Many of the changes taking place in Earth’s environment are irreversible.

In the light of the above statements, Choose the most appropriate answer from the options given below :

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

16. according to Naiyayikas we ascertain the relation of universal concomitance between x and y :

- (A) We can determine the relation only if we can determine the relation of essential identity between x and y
- (B) by perceiving that all in cases the presence of x is accompanied by the y
- (C) we can determine the relation only if we can determine the relation of cause and effect between x and y
- (D) by not perceiving any instance where the presence of x is not accompanied by the presence by y or vice-versa

choose the correct answer from the option given below :

- (A) (A) and (C) only
- (B) (D) and (C) only
- (C) (B) and (D) only
- (D) (A), (B) and (C) only

17. Which of the following statements are related to the role of ICT in citizen services?

- (A) Access to public documents
- (B) On-line payments
- (C) Better medical education across the country

Choose the correct answer from the options given below :

- (A) (A), (B) and (C)
- (B) (A) and (C) only
- (C) (B) and (C) only
- (D) (A) and (B) only

18. Identify the correct order of the following different types of computer components ranked from fastest to slowest in terms of access time.

- (A) RAM
- (B) Optical Drive
- (C) CPU Cache
- (D) SSD

Choose the correct answer from the options given below :

- (A) (B), (D), (A), (C)
- (B) (C), (D), (A), (B)
- (C) (A), (B), (C), (D)
- (D) (C), (A), (D), (B)

19. What is the binary equivalent of the decimal number 67.625?

- (A) 1000010.110
- (B) 1000011.110

- (C) 1000010.101  
(D) 1000011.101

20. Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A) : In the context of communication, the perceptual process creates, semantic-noise also called word-noise.

Reason (R) : The various meanings either connotative or denotative are sources of semantic noise.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).  
(B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).  
(C) (A) is correct but (R) is not correct.  
(D) (A) is not correct but (R) is correct.
21. A seller mixes 26 kg rice of a price of Rs. 20/kg, with 30 kg of different variety rice of a price of Rs. 36/kg. He sells both the mixed rices at Rs. 30/kg. What will be the profit in percentage?  
(A) 5%  
(B) 10%  
(C) 15%  
(D) 20%
22. Two propositions are contradictories if:  
(A) One is denial or negation of the other  
(B) If they can both be true but cannot both be false  
(C) If they have different subject and predicate term and differ from each other in both quality and quantity  
(D) If they have the same subject and predicate terms but differ from each other only in quantity but not in quality

23. Match List I with List II gives their characteristic features

List I	List II
(Modes of Evaluation)	(Characteristic Features)
(A) Formative Evaluation	(I) Compares one student with another student
(B) Summative Evaluation	(II) Compares the progress of a student against prespecified standards
(C) Criterion-referenced Evaluation	(III) Used primarily for motivational and monitoring purposes of learning
(D) Norm-referenced Evaluation	(IV) Used primarily for gradation of progress made

Choose the correct answer from the options given below :

- (A) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

- (B) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)  
(C) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)  
(D) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)

24. Given below are two statements :

Statement I : Data analysis in research being a technical job, 'research ethics' does not matter.

Statement II : ICT is helpful almost at all stages of research.

In the light of the above statements,

Choose the correct answer from the options given below :

- (A) Both Statement I and Statement II are true.  
(B) Both Statement I and Statement II are false.  
(C) Statement I is true but Statement II is false.  
(D) Statement I is false but Statement II is true.
25. CBCS stands for  
(A) Choice Based Central Schemes  
(B) Choice Based Credit System  
(C) Central Board of Credit Schemes  
(D) Credit Board of Central Sponsors
26. If the cost price is 25% of selling price, then what is the profit percentage?  
(A) 100  
(B) 200  
(C) 300  
(D) 400
27. COVID-19 acronym stands for  
(A) Corona Virus Disease 2019  
(B) Corona Virus Disease strain 19  
(C) Corona Virus Disaster 2019  
(D) Corona Virus Disease 2020
28. In which level of teaching promotion of critical thinking is the hall mark?  
(A) Memory level  
(B) Understanding level  
(C) Reflective level  
(D) Autonomous development level
29. The average of 4 terms is 20, and the first term is  $\frac{1}{3}$ rd of sum of the remaining 3 terms. What will be the value of first term?  
(A) 15  
(B) 20  
(C) 25  
(D) 30
30. NITI Aayog is  
(A) National Institution for Transforming India  
(B) National Institute of Technology Integration  
(C) National Institute of Technological Innovation

(D) National Institute of Transformation and Innovation

31. Identify the main features of 'qualitative research' from the following :

- A. It is concerned with understanding the phenomena from the participant's perspective
- B. It assumes that there are social facts with a single objective reality
- C. researcher becomes immersed in the situation, present or past
- D. Researcher is detached from the study to avoid bias
- E. There is greater flexibility in both the methods and research process

Choose the correct answer from the options given below :

- (A) (A), (C) and (E) only
- (B) (A), (B) and (C) only
- (C) (B), (C) and (D) only
- (D) (C), (D) and (E) only

32. Match List I with List II :

List I	List II
(Days Celebrated)	(When)
(A) Earth Day	(I) 24 January
(B) UNO Day	(II) 5th June
(C) Environment Day	(III) 24th October
(D) International Day of Education	(IV) 22nd April

Choose the correct answer from the options given below :

- (A) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (B) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
- (C) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
- (D) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

33. Identify the barriers to communication from the list given below :

- (A) Time and distance
- (B) By-passed instructions
- (C) Encoding of thoughts and ideas
- (D) Decoding of thoughts and ideas
- (E) Logical sequence

Choose the correct answer from the options given below :

- (A) (A) and (B) only
- (B) (B) and (C) only
- (C) (C) and (D) only
- (D) (D) and (E) only

34. Match List I with List II :

List I(Methods of research)	List I(Features emphasized)
-----------------------------	-----------------------------

(A) Experimental	(I) Primary and secondary sources tapped with emphasis on internal criticism
(B) Ex Post Facto	(II) Status of facts and conditions are ascertained
(C) Descriptive	(III) A variable is manipulated to see its effect on other variable
(D) Historical	(IV) The differences are noted and factors causal or otherwise are determined

Choose the correct answer from the options given below :

- (A) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (B) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (C) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (D) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

35. Given below are two statements :

Statement I : The abbreviation 'MOOC' stands for 'Massive Open Online Courses'.

Statement II : The abbreviation 'SWAYAM' stands for 'Study Webs of Active-Learning for young Academic Minds', In the light of the above statements,

Choose the correct answer from the options given below :

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.

36. Which of the following is most effectively promoted by Globalisation among the societies?

- (A) Monocultural values
- (B) Multicultural values
- (C) Regionalisation
- (D) Self centredness

37. Which of the following is an exclusive example of Non-verbal cue that includes the pitch, rate, volume and use of pauses?

- (A) Linear Model of Communication
- (B) Interactional Model
- (C) Non-Verbal Cues
- (D) Para-Language

38. Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A) : When Null Hypothesis (H<sub>0</sub>) is rejected, researcher's hypothesis (H<sub>1</sub>) is accepted.

Reason (R) : Null Hypothesis (H<sub>0</sub>) is a chance hypothesis and as such (H<sub>1</sub>) being true, the researcher's hypothesis lies in the domain of acceptability.



In the light of the above statements,

Choose the most appropriate answer from the options given below :

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- (C) (A) is correct but (R) is not correct.
- (D) (A) is not correct but (R) is correct.

39. Match List I with List II :

List I	List II
(Types of Communication)	(Main features)
(A) Downward Communication	(I) Grows primarily to meet organizational/member's need for communication
(B) Upward Communication	(II) It forms a useful link in decision making for task coordination
(C) Horizontal Communication	(III) Provides management with feedback about current issues and problems
(D) Grapevine Communication	(IV) It is the most common communication system in an organization

Choose the correct answer from the options given below :

- (A) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (B) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- (C) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (D) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

40. A milk man purchases milk at Rs. X per litre and sells it at Rs. 2X per litre. Still he mixes 2 litres of water with every 6 litre of pure milk. What is his profit percentage?

- (A) 33.33
- (B) 66.66
- (C) 133.33
- (D) 166.66

41. Given below are two statements :

Statement I : One of the basic principles of progressive view of teaching is that education should be life itself rather than a preparation for living.

Statement II : According to reconstructionist view of education the new social order must be 'genuinely democratic'.

In the light of the above statements,

Choose the correct answer from the options given below :

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.

42. match List I with List II :

List I	List II
(Computer Terms)	(Description)
(A) HTML	(I) Semantic Web
(B) Web 2.0	(II) Use of Internet to make phone calls
(C) Web 3.0	(III) Language used to create web pages
(D) VOIP	(IV) Collaborative web

Choose the correct answer from the options given below :

- (A) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)  
 (B) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)  
 (C) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)  
 (D) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

43. In which of the following researches, attempts are made to establish context-free generalizations?

- (A) Phenomenology  
 (B) Grounded theory  
 (C) Symbolic interactionism  
 (D) Experimental Studies

44. The average monthly income of P and Q is Rs. 5,050/-. The average monthly income of Q and R is Rs. 6,250/- and that of P and R is Rs. 5,200. What will be the monthly income of P?

- (A) Rs. 3,000/-  
 (B) Rs. 3,500/-  
 (C) Rs. 4,000/-  
 (D) Rs. 4,500/-

45. Which country is in the process of setting up the largest integrated solar- wind energy park of 30 GW capacity?

- (A) China  
 (B) India  
 (C) Australia  
 (D) Saudi Arabia

46. Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A): There has to be an integrated approach to achieve the targets of Sustainable Development Goals (SDGs).

Reason (R): Many of the SDGs are interconnected.

In the light of the above statements,

Choose the most appropriate answer from the options given below:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).  
 (B) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).  
 (C) (A) is correct but (R) is not correct.  
 (D) (A) is not correct but (R) is correct.

List I	List II
(A) Vyapti	(I) The property being inferred
(B) Linga	(II) Locus of hetu and sadhya
(C) Sadhya	(III) Sign or reason
(D) Paksha	(IV) Universal concomitance

47. Match list I and II :

Choose the correct answer from the option given below :

- (A) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (B) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
- (C) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
- (D) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

48. What percentage of India's land is vulnerable to earthquakes?

- (A) ~ 57%
- (B) ~ 42%
- (C) ~ 37%
- (D) ~ 28%

49. Given below are two statements :

Statement I : Noise Pollution has an adverse impact on hearing ability as well as psychological well being of a person.

Statement II : Human perception of noise levels is linear.

In the light of the above statements,

Choose the correct answer from the options given below :

- (A) Both Statement I and Statement II are true.
- (B) Both Statement I and Statement II are false.
- (C) Statement I is true but Statement II is false.
- (D) Statement I is false but Statement II is true.

50. Given below are two statements :

Statement I : According to classical Indian logic the fallacies (hetvabhasa) are not error of inference . but rather hindrance to inference .

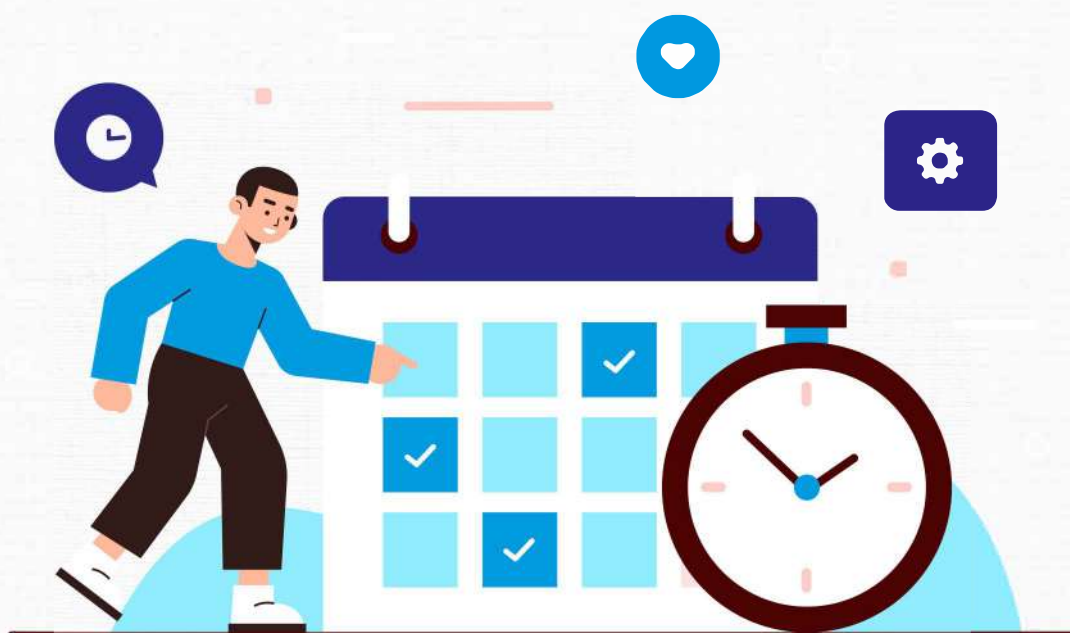
statement II: A fallacy is really a “ seeming reason or mark “ (hetvabhasa), which ,if recognized , would prevent the inferential cognition from arising. In the light of the above statements.

Choose the correct answer from the options given below :

- (A) Both statement I and statement II are true
- (B) Both statement I and statement II are false
- (C) Statement I is true but statement II is false
- (D) Statement I is false but statement II is true

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	B	26	C
2	C	27	A
3	A	28	C
4	B	29	B
5	D	30	A
6	C	31	A
7	D	32	D
8	C	33	A
9	D	34	C
10	A	35	C
11	A	36	B
12	C	37	D
13	A	38	A
14	A	39	D
15	A	40	D
16	C	41	A
17	D	42	A
18	D	43	D
19	D	44	C
20	A	45	B
21	A	46	A
22	A	47	C
23	B	48	A
24	D	49	C
25	B	50	A



It's your time  
to empower yourself  
**YES YOU DID IT**

## 24-11-2021 URUD\_ FN

Study the given table and answer the questions that follow Given below is a table in which the total number of employees in different departments of an organization along with the Male and Female ratio is given.

Departments	Regular Employees			Contractual Employees		
	Total Number	Ratio		Total Number	Ratio	
		M	F		M	F
IT	250	1	1	240	2	1
Accounts	123	2	1	130	3	2
HR	90	3	2	30	2	1
Marketing	350	5	2	343	5	2
Production	304	5	3	351	5	4

- Find out the average number of regular female employees in the organization.  
(A) 78.50  
(B) 79.40  
(C) 81.25  
(D) 83.20
- What is the respective ratio of the total number of female employees in the marketing department to the total number of female employees in the production department?  
(A) 11/13  
(B) 11/15  
(C) 12/13  
(D) 12/17
- Which department has the highest number of female employees?  
(A) Accounts  
(B) IT  
(C) Marketing  
(D) Production
- Find out the difference between the number of contractual male employees and the number of contractual female employees in the organization.  
(A) 295  
(B) 298  
(C) 302  
(D) 307
- Find out the difference between regular male employees and contractual male employees in the organization.  
(A) 2  
(B) 3  
(C) 4

(D) 5

6. Nalanda was established in

- (A) 2nd century
- (B) 3rd century
- (C) 4th century
- (D) 5th century

7. Which of the following are the most influential factors of learning?

- A. Government policy
- B. Motivation
- C. Aptitude
- D. Interest
- E. Physical facilities

Choose the correct answer from the options given below:

- (A) A, B and E only
- (B) A, B and C only
- (C) B, C and D only
- (D) C, D and E only

8. According to Robbins et al, the sequence of communication functions is :

- A. Control
- B. Motivation
- C. Emotional expression
- D. Information

Choose the correct answer from the options given below:

- (A) A, B, C, D
- (B) B, C, D, A
- (C) C, D, B, A
- (D) D, A, C, B

9. Which type of power plants uses the least land per unit of GWh energy production?

- (A) Coal
- (B) Geothermal
- (C) Solar
- (D) Wind

10. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Choice-based Credit System (CBCS) is adopted out of the need for flexibility in the education system so that students, depending upon their interests and aims, can choose interdisciplinary, intra-disciplinary and skill-based courses.

Reason R: The majority of Indian higher education institutions have been following a marks or percentage-based evaluation system, which obstructs the flexibility for the students to study the subjects/courses of their choice and their mobility to different institutions.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) A is correct but R is not correct
- (B) A is not correct but R is correct
- (C) Both A and R are correct and R is the correct explanation of A
- (D) Both A and R are correct but R is NOT the correct explanation of A

11. If the difference between compound interest and simple interest on some principal amount at 20% for 3 years is Rs 64, then the principal amount is –
- Rs 375
  - Rs 495
  - Rs 500
  - Rs 550

12. Arrange the following states in descending order in terms of GER (Gross Enrollment Ratio) in higher education.
- A. Tamil Nadu
  - B. Kerala
  - C. Uttarakhand
  - D. Sikkim
  - E. Himachal Pradesh

Choose the correct answer from the options given below:

- (A) A, B, D, E, C
  - (B) B, A, D, C, E
  - (C) B, D, E, A, C
  - (C) D, A, E, C, B
13. In respect of Biochemical Oxygen Demand (BOD), the permissible Indian standard for discharge of treated effluents in Inland Surface Waters is
- (A) 15.0 mg
  - (B) 30.0 mg
  - (C) 5.0 mg
  - (D) 6.0 mg
14. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R
- Assertion A: Communication must include the transfer and understanding of messages and their meanings.
- Reason R: Achieving perfect communication is a technical possibility.

In light of the above statements, choose the correct answer from the options given below:



- (A) A is false but R is true
- (B) A is true but R is false
- (C) Both A and R are true and R is the correct explanation of A
- (D) Both A and R are true but R is NOT the correct explanation of A

15. Given below are two statements

Statement I: The angle between the minute hand and the hour hand of a clock when the clock shows 3 hours 20 minutes is  $25^\circ$

Statement II: Between 4 and 5, the minute hand and hour hand of a clock will be coincident at  $21\frac{9}{11}$  minutes past 4.

In light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

16. Match List I with List II

List I	List II
A. Vyapti	I. An immediate valid cognition of reality due to some kind of sense-object contact
B. Anumana	II. A source of knowledge on the basis of the likeness of things
C. Pratyaksha	III. Knowledge of an object due to previous knowledge of some sign or mark
D. Upamana	IV. The universal relation between the middle and major term of inference

Choose the correct answer from the options given below:

- (A) A - I, B - IV, C - III, D - II
- (B) A - II, B - III, C - I, D - IV
- (C) A - III, B - II, C - I, D - IV
- (D) A - IV, B - III, C - I, D - II

17. Name the fallacy committed in the argument.

"All household pets are domestic animals.

No unicorns are domestic animals.

Therefore, some unicorns are not household pets."

Choose the correct answer from the options given below:

- (A) Affirmative conclusion from Negative Premises
- (B) Exclusive fallacy
- (C) Existential fallacy
- (D) Undistributed Middle

18. According to Wimmer and Dominick, the sequential steps in content analysis are:

- A. Defining the population
- B. Selection of appropriate sample

- C. Identifying the unit of analysis and construction of categories
- D. Code, analyse and draw inferences from the collected data
- E. Formulation of the research question or hypothesis by the researcher

Choose the correct answer from the options given below:

- (A) A, B, C, D, E
- (B) B, C, D, E, A
- (C) C, D, E, A, B
- (D) E, A, B, C, D

19. Which of the following influence non-verbal communication?

- A. Avoidance of signals
- B. Invisible incongruence
- C. Culture
- D. Geographical location
- E. Contextuality

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and D only
- (D) C, D and E only

20. Which of the following are characteristics of quantitative research?

- A. Questions are open-ended
- B. Identified variables are measured
- C. Questions are standardized
- D. If the sample size is large, the findings can be easily generalised
- E. It is difficult to fix the level of measurement

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, C and E only
- (C) B, C and D only
- (D) C, D and E only

21. If seven persons can build a house in 30 days, how long will it take three persons to build the same house, provided that they all work at the same rate?

- (A) 100 days
- (B) 210 days
- (C) 30 days
- (D) 70 days

22. A spreadsheet is

- (A) Four-dimensional table or grid
- (B) One-dimensional table or grid

- (C) Three-dimensional table or grid
- (D) Two-dimensional table or grid

23. Which of the following are the characteristics of an adolescent?

- A. Increasing independence from adult control
- B. Rapid physiological changes
- C. Emotionally matured
- D. Acts rationally
- E. Increased focus on activities with peer groups

Choose the correct answer from the options given below:

- (A) A and B only
- (B) A, B and C only
- (C) A, B and D only
- (D) A, B and E only

24. Which of the following statements are correct?

- A. Laser printers use dry ink
- B. Unlike dot matrix and inkjet printers, laser printers do not use ink when producing a document
- C. Laser printers use the property of static electricity
- D. Laser printers produce ozone gas and tiny toner particulates in the air

Choose the correct answer from the options given below:

- (A) A and C only
- (B) A, B and D only
- (C) A, C and D only
- (D) B, C and D only

25. Protection from Ultraviolet Radiations as envisaged under the Montreal Protocol also contributes to following SDGs

- (A) SDGs 10, 16, 17
- (B) SDGs 3, 11, 14, 15
- (C) SDGs 4, 5, 11, 17
- (D) SDGs 8, 10, 12

26. In a learner-centric approach, a teacher should:

- (A) clarify concepts by citing examples
- (B) demonstrate inside the classroom
- (C) explain concepts by using adequate support materials
- (D) facilitate student learning

27. Given below are two statements

Statement I: Researchers in history are myth makers.

Statement II: Various movements in social history- new history - have provided new narratives for history researchers.

In light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

28. According to Niti Ayog's SDG Index (2019-20), which among the following states is the best performer in the attainment of SDG-5 (Gender Equity)?

- (A) Goa
- (B) Himachal Pradesh
- (C) Kerala
- (D) Sikkim

29. Which of the following is the highest level of teaching?

- (A) Memory
- (B) Reflective
- (C) Thinking
- (D) Understanding

30. Match List I with List II

List I – Ethical Concepts	List II – Source
Categorical imperatives	I. Aristotle
Utilitarianism	II. John Rawls
Golden mean	III. Immanuel Kant
Theory of justice	IV. John Stuart Mill

Choose the correct answer from the options given below:

- (A) A - I, B - II, C - III, D - IV
- (B) A - II, B - III, C - IV, D - I
- (C) A - III, B - IV, C - I, D - II
- (D) A - IV, B - I, C - II, D - III

31. Independent verification of a research effort is known as

- (A) Enquiry
- (B) Investigation
- (C) Probe
- (D) Replication

32. In electronic banking, ATM stands for

- (A) Automated Teller Machine
- (B) Automated Transfer Money
- (C) Automatic Transfer Machine
- (D) Automatic Transfer Mode

33. In the transactional type of communication, the elements are:
- (A) Inactive
  - (B) Independent
  - (C) Inter-dependent
  - (D) Neutral
34. 'Deemed to be University' is established by
- (A) A notification of the Central Government on advice of the UGC
  - (B) A notification of the UGC on the advice of the State Government
  - (C) An act of the Parliament
  - (D) An act of the state legislative assembly
35. Which of the following is a disadvantage of laptop computers in comparison to desktop computers?
- (A) It has lower power consumption
  - (B) It has no trailing wires
  - (C) It is easier to break or steal
  - (D) It is lightweight and self-contained
36. Which of the following are the traits of a competent communicator?
- A. Mindfulness
  - B. Receptive to new information
  - C. Thinking before acting
  - D. Should always go by the first impression
  - E. Be passive to issues around

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) A, D and E only
- (C) B, C and D only
- (D) C, D and E only

37. Which of the following are the major recommendations of the NEP-2020 related to higher education?
- A. To increase GER from 26.3% to 50% by 2035
  - B. Establishment of world-class universities
  - C. 'Light but tight' regulation by a single regulator for higher education
  - D. Promoting research in science and technology
  - E. Opening of 1500 more universities

Choose the correct answer from the options given below:

- (A) A and B only
- (B) A and C only
- (C) B and D only
- (D) D and E only

## 38. Match List I with List II

List I	List II
A. Sannidhi	I. Mutual fitness and compatibility of the constituent words in a sentence
B. Tātparya	II. Expectancy between the words different in a sentences
C. Yogyatā	III. Propinquity between the different words in a sentence
D. Akankṣā	IV. Meaning intended by the sentence

Choose the correct answer from the options given below:

- (A) A - II, B - I, C - III, D - IV  
 (B) A - II, B - I, C - IV, D - III  
 (C) A - III, B - IV, C - I, D - II  
 (D) A - IV, B - II, C - III, D - I

## 39. Match List I with List II

List I - Institutions Offering Courses Through SWAYAM	List II - Level of Education
A. NCERT	I. Post school education
B. IGNOU	II. Undergraduate education
C. CEC	III. Postgraduate education
D. UGC	IV. School Education

Choose the correct answer from the options given below:

- (A) A - IV, B - I, C - II, D - III  
 (B) A - IV, B - I, C - III, D - II  
 (C) A - IV, B - II, C - III, D - I  
 (D) A - IV, B - III, C - I, D - II

## 40. In which of the following forms of knowledge there cannot be any predication of the object in terms of the subject-predicate relation?

- (A) Nirvikalpaka Pratyaksha  
 (B) Sāmānyalakṣaṇa  
 (C) Savikalpaka Pratyaksha  
 (D) Yogaja

## 41. Consider 'A' proposition as 'True' and 'False' respectively, in a square of the opposition of propositions, then which one of the following is correct?

- (A) 'E' is Undetermined and 'O' is False  
 (B) 'I' is True and 'E' is False  
 (C) 'O' is True and 'I' is False  
 (D) 'O' is Undetermined and 'I' is False

## 42. Which of the following statements are correct?

- A. If the cost price of an item is Rs.56 and the gain percentage is 20%, the selling price of the item is Rs.76.2.
- B. If the cost price of an item is Rs.80 and the loss percentage is 15%, the selling price of the item is Rs.68.
- C. If an item purchased in Rs.5 is sold for Rs.6, the profit is 25%

Choose the correct answer from the options given below:

- (A) A and B only
- (B) B and C only
- (C) B only
- (D) C only

43. Among all recorded species in the world, India accounts for about
- (A) 10-12%
  - (B) 15-18%
  - (C) 20-25%
  - (D) 7-8%

44. Given below are two statements

Statement I: DRAM consists of a number of transistors and capacitors

Statement II: DRAM needs to be constantly refreshed

In light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are false
- (B) Both Statement I and Statement II are true
- (C) Statement I is false but Statement II is true
- (D) Statement I is true but Statement II is false

45. What comes next in this sequence?

1, 2, 2, 4, 8, 32, ?

- (A) 128
- (B) 256
- (C) 64
- (DS) 84

Please read the passage and answer the following questions.

The concept of emotional labour emerged from studies of service jobs. But emotional labour is relevant to almost every job. At the least, your managers expect you to be courteous, not hostile in your interactions with co-workers. The true challenge arises when employees have to project one emotion while feeling another. This disparity is emotional dissonance, and it can take a heavy toll. Bottled up feelings of frustration, anger, and resentment can eventually lead to emotional exhaustion and burn out. Emotional dissonance is like cognitive dissonance, except that emotional dissonance concerns feelings rather than thinking. It is from the increasing importance of emotional labour as a key component of effective job performance that we have come to understand the relevance of emotion in every field.

Emotional labour creates dilemmas for employees. There are people with whom you have to work that you just plain do not like. Maybe you consider their personality abrasive. Maybe you know they have said negative things about you behind your back. Regardless, your job requires you to interact with these people on a regular basis. So you are forced to feign friendliness. It can help you, on the job, especially if you separate emotions into felt or displayed emotions. Felt emotions are an individual's actual emotions. In contrast, displayed emotions are those that the organisation requires workers to show and considers appropriate in a given job. They are not innate; they are learned. Similarly, most of us know we are expected to act sad at funerals, regardless of whether we consider the person's death a loss and to appear happy at weddings even if we don't feel like celebrating. Research suggests that at workplaces, it is expected that we should typically express positive emotions like happiness and excitement and suppress negative emotions like fear; anger; disgust and contempt.

46. Which of the following feelings one should feign at a workplace?

- A. Fear
- B. Excitement
- C. Contempt
- D. Happiness

Choose the correct answer from the options given below:

- (A) A and B only
- (B) B and C only
- (C) B and D only
- (D) C and D only

47. According to the passage, effective emotional labour management involves:

- (A) Acceptance of emotional dissonance
- (B) Display of friendly emotions
- (C) Free expression of feelings of frustration
- (D) Sidetracking the learned emotions

48. In a workplace environment, labour managers should give preference to:

- (A) Displayed emotions
- (B) Expressions of frustrations
- (C) Felt emotions
- (D) Negative emotions

49. The basic principle of emotional labour management is:

- (A) Be less hostile to other employees
- (B) Be polite to co-workers
- (C) Do not show your frustrations
- (D) Entertain only limited interaction within the organization

50. Within an organization, emotional dissonance affects






- (A) Cognitive consonance
- (B) Constructive thinking
- (C) Effective job performance
- (D) Solutions to labour issues

Aaifer

### ANSWER KEY

Q. No	Ans	Q. No	Ans
1	D	26	D
2	B	27	A
3	D	28	B
4	C	29	B
5	B	30	D
6	D	31	D
7	C	32	A
8	A	33	C
9	B	34	A
10	C	35	C
11	C	36	A
12	D	37	B
13	B	38	C
14	B	39	A
15	C	40	A
16	D	41	B
17	C	42	C
18	D	43	D
19	D	44	B
20	C	45	B
21	D	46	C
22	D	47	B
23	D	48	A
24	C	49	B
25	B	50	C

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