

1. Just as melting ice-cubes do not cause a glass of water to overflow, melting sea-ice does not increase oceanic volume. What type of argument is it ?
(A) Analogical (B) Hypothetical
(C) Psychological (D) Statistical
2. 'Sound is eternal because it is produced' refers to which type of Hetvabhasa ?
(A) Badhita (B) Viruddha
(C) Asiddha (D) Savyabhicara
3. NPTEL stands for :
(A) National Programme on Technology Enhanced Learning
(B) National Programme on Technology Enabled Learning
(C) National Programme on Technology Enhanced Lessons ✕
(D) National Programme on Technology Embedded Learning ✕
4. Video conferencing is an example of :
(A) Synchronous technology (B) Asynchronous technology
(C) Traditional technology (D) Modern technology

5. Given below are two statements :

Statement I : Netizen is a term used to describe someone who uses network resources

Statement II : Quick response code refers to concentration of picture element.

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 and Statement II is incorrect
- (D) Statement I is incorrect and Statement II is correct

6. Which of the following pairs shown in internet service and its corresponding protocol, correctly matched ?

(A) WWW-FTP

(B) Email-SMTP ✓

(C) Email-FTP

(D) File Transfer-SMTP ✓

7. Which of the following are web search engines ?

(1) Duck Duck Go

(2) Google ✓

(3) Yahoo Search ✓

(4) Bing

(5) Pinterest

Choose the correct answer from the options given below :

(A) (2), (3), (4) only

(B) (1), (2), (3), (4) only ✓

(C) (2), (5) only ✗

(D) (1), (3), (4), (5) only ✗

8. Secretariate of Convention of Biodiversity (CBD) is situated in :

- (A) Montreal, Canada (B) New York, USA
(C) Geneva, Switzerland (D) London, England

9. Greenhouse gases absorb the radiation energy mostly in which of the following region of solar spectrum ?

- (A) X-Ray (B) Ultraviolet
(C) Infrared (D) Visible

10. Which of the following air pollutants causes acid rain ?

- (1) Nitric Oxide
(2) Nitrogen Oxide
(3) Carbon Monoxide
(4) Sulphur Dioxide
(5) Methane

Choose the correct answer from the options given below :

- (A) (1), (2), (3) only ~~X~~ (B) (1), (2), (4) only ✓
(C) (2), (3), (4) only (D) (3), (4), (5) only ~~X~~

11. The substance that slows down the neutron to have controlled chain reaction during nuclear energy production is called :

- (A) Controller (B) Inhibitor ✓
(C) Moderator ✓ (D) Reducer ✓

12. The period of Sendai framework for disaster risk reduction is :
- (A) 2015-2030 (B) 2020-2040
(C) 2015-2025 (D) 2020-2030
13. Which of the following is a characteristic related to Non-conventional learning ?
- (A) On-campus Education (B) Fixed curriculum
(C) Learner centred education (D) Regular Attendance
14. Which apex body coordinates and develops engineering education in India ?
- (A) NCTE ✓ (B) AICTE ✓
(C) UGC ✓ (D) IGNOU ✓
15. The minimum degree qualification for teaching will be a 4-year integrated B.Ed. degree by the year :
- (A) 2025 (B) 2030
(C) 2035 (D) 2040



Handwritten notes and signatures, including '2030', '2025-2030', and 'Sendai'.

16. Which of the following are the goals of higher education in India ?

- (a) Access
- (b) Equity
- (c) Quality and Excellence ✓
- (d) Relevance
- (e) Value based education ✓
- (f) Compulsory and free education

Select the correct answer from the codes given below :

- (A) (a), (b) and ~~(e)~~
- (B) (a), (b), (e) and ~~(d)~~
- (C) (a), (b), (c), (d) and (e) ✓
- (D) (a), (b), (c), (d), (e) and ~~(f)~~ ✓

7. Which of the following statements are correct about distance education in India ?

- (a) It supplements formal education
- (b) It reduces the cost of education ✓
- (c) It replaces the formal education ✓
- (d) It enhances access to education ✓

Supplement formal education

Select the correct answer from the codes given below :

Codes :

(A) (a), (b), (c) and (d)

(B) (a), (c) and ~~(d)~~

(C) (a), (b) and ~~(c)~~ ✓

(D) ~~(b), (c) and (d)~~ ✓

Read the table below and based on this table answer questions from 18 to 22 :

Area under Major Horticulture Crops (in lakh hectares)

Year	Fruits	Vegetables	Flowers	Total Horticulture Area
2005-06	53	72	1	187
2006-07	56	75	1	194
2007-08	58	78	2	202
2008-09	61	79	2	207
2009-10	63	79	2	209

18. Which of the following two years have recorded the highest rate of increase in area under the total horticulture ?
- (A) 2005-06 & 2006-07 (B) 2006-07 & 2008-09
 (C) 2007-08 & 2008-09 (D) 2006-07 & 2007-08
19. Shares of the area under flowers, vegetables and fruits in the area under total horticulture are respectively :
- (A) 1, 38 and 30 percent (B) 30, 38 and 1 percent
 (C) 38, 30 and 1 percent (D) 35, 36 and 2 percent
20. Which of the following has recorded the highest rate of increase in area during 2005-06 to 2009-10 ?
- (A) Fruits (B) Vegetables
 (C) Flowers (D) Total horticulture

21. Find out the horticultural crop that has recorded an increase of area by around 10 percent from 2005-06 to 2009-10 :
- (A) Fruits (B) Vegetables
(C) Flowers (D) Total horticulture
22. What has been the share of area under fruits, vegetables and flowers in the area under total horticulture in 2007-08 ?
- (A) 53 percent (B) 68 percent
(C) 79 percent (D) 100 percent
23. From the following list of learner characteristics, identify those which are associated with field independent learners :
- (1) Focuses on facts and principles
(2) Perceives global aspects of concepts and materials
(3) Prefers and likes to compete.
(4) Can organize information by himself/herself
(5) Likes to cooperate

Choose the correct answer from the options given below :

- (A) (1), (2) and (3) only (B) (2), (3) and (4) only
(C) (1), (3) and (4) only (D) (3), (4) and (5) only

4. The purpose of formative evaluation is to :

- (A) Grade students' learning outcomes
(B) Accelerate students' learning performance
(C) Check students' performance graph
(D) Provide feedback to teacher effectiveness

25. Which of the following set of statements best represents the nature and objective of teaching and learning ?
- (1) Teaching is like selling and learning is like buying
 - (2) Teaching is a social act while learning is a personal act
 - (3) ~~X~~ Teaching implies learning whereas learning does not imply teaching
 - (4) ~~X~~ Teaching is a kind of delivery of knowledge while learning is like receiving it.

Codes :

- (A) (1), (3) and (4) ~~only~~
- (B) (2), (3) and (4) ~~only~~
- (C) (1), (2) and (3) ~~only~~
- (D) (1), (2) and (4) ~~only~~

26. Which of the following is devoted to telecasting high quality educational programmes over TV ?

- (A) SWAYAM
- (B) SWAYAM PRABHA
- (C) MOOCs
- (D) MOODLE

27. Which of the following factors LEAST affects learning ?

- (A) Instructional Material ✓
- (B) Prior Experiences of Learners ✓
- (C) Socio-Economic Status of Family
- (D) Emotional Health of Learners ✓

Least affect

28. The issue of 'research ethics' may be considered pertinent at which stage of research ?

- (A) At the stage of problem formulation and its definition ✓
- (B) At the stage of defining the population of research
- (C) At the stage of data collection and interpretation
- (D) At the stage of reporting the findings

29. Which of the following is NOT a characteristic of Experimental Research ?
- (A) Observation (B) Control
(C) Manipulation (D) Content Analysis
30. Which sequence of activities best presents the cyclic nature of action research methodology ?
- (A) Plan, Act, Observe, Reflect
(B) Observe, Act, Reflect, Plan
(C) Act, Plan, Observe, Reflect
(D) Reflect, Observe, Plan, Act
31. Which of the following is NOT the critical feature of qualitative research ?
- (A) Actual settings are the direct source of data
(B) Data take the forms of words or pictures
(C) Seeking to establish relationships among measured social facts
(D) Researcher becomes immersed in the situation, present or past related to the phenomena
32. If a teacher wants to test the effectiveness of a new teaching method, say flipped classroom approach, which of the following research methods will help him best ?
- (A) Descriptive Research X (B) Ethnographic Research X
(C) Case Study (D) Experimental Research

to the basic constitution of Thomas More's Utopia, There is little about modern India that strikes one at once as Utopian : but the insistence upon the inculcation of norms, and the absence of bigotry and institutionalized exploitation of human or natural resources, are two very different features which link the realities of India and her tradition with the essence of all Utopians.

33. Which of the following is a special feature of the Indian State ?
- (A) Peaceful co-existence of people under a common system of leadership
 - (B) Peaceful co-existence of social groups of different historical provenances attached to each other in a geographical, economic and political sense
 - (C) Social integration of all groups
 - (D) Cultural assimilation of all social groups
34. The author uses the word 'State' to highlight :
- (A) Antagonistic relationship between the state and the individual throughout the period of history
 - (B) Absence of conflict between the state and the individuals upto a point in time
 - (C) The concept of state sovereignty
 - (D) Dependence on religion
35. Which one is the peculiar feature of modern Indian 'Secularism' ?
- (A) No discrimination on religious considerations
 - (B) Total indifference to religion
 - (C) No space for social identity
 - (D) Disregard for social law

36. The basic construction of Thomas More's Utopia was inspired by :

- (A) Indian tradition of religious tolerance
- (B) Persecution of religious groups by Indian rulers
- (C) Social inequality in India
- (D) European perception of Indian State



37. What is the striking feature of modern India ?

- (A) A replica of Utopian State
- (B) Uniform laws
- (C) Adherence to traditional values
- (D) Absence of Bigot

38. Break-down in verbal communication is described as :

- (A) Short circuit
- (B) Contradiction
- (C) Unevenness
- (D) Entropy

39. **Assertion (A) :** Formal communication tends to be fast and flexible.

Reason (R) : Formal communication is a systematic and orderly flow of information.

(A) Both (A) and (R) are correct and (R) is correct explanation of (A)

(B) Both (A) and (R) are correct, but (R) is not correct explanation of (A)

(C) (A) is correct but, (R) is false

(D) (A) is false but, (R) is correct

40. Match List-I with List-II :

List-I		List-II	
Communication Barrier		Description	
(a) Semantics	↗	(i) Lack of Physical clarity in channel	↖
(b) Psychological	↘	(ii) Faulty Message	↖
(c) Personal	↗	(iii) Poor Retention	↖
(d) Physical	↘	(iv) Lack of time	↖

Choose the correct answer from the options given below :

- | | | | |
|-----------|-------|-------|-------|
| (a) | (b) | (c) | (d) |
| (A) (i) | (ii) | (iii) | (iv) |
| (B) (ii) | (iii) | (iv) | (i) |
| (C) (iii) | (iv) | (i) | (ii) |
| (D) (iv) | (i) | (ii) | (iii) |

41. The communication among persons working at different levels who have no direct reporting relationship is called :

- (A) Intrapersonal communication (B) Upward communication
(C) Horizontal communication (D) Diagonal communication

42. In a classroom, transforming verbal and non-verbal signs back into message is called :

- (A) Decoding (B) Encoding
(C) Feedback (D) Modulation

43. -10, -3, 3, 8, 12, What is the next number ?

- (A) 16 (B) 15
(C) 19 (D) 21

$-10 + 7 = -3$
 $-3 + 6 = 3$
 $3 + 5 = 8$
 $8 + 4 = 12$

44. Three bells ring together at 8:00 AM and then they ring at an interval of 6 min, 9 min and 12 min respectively. When will they ring together again ?
- (A) 9:12 AM (B) 8:36 AM
(C) 8:48 AM (D) 9:48 AM
45. In a certain coding language 'CHEMISTRY' is written as 'DGFLJRUQZ', then in the same code 'GEOMETRY' will be written as :
- (A) HDPLFSSZ (B) HDLPFSXS
(C) HLDPFSSX (D) HDPLFSSX
46. A man sells an item at a loss of 40%. If the actual loss in rupees is 136, what is the actual cost of the item ?
- (A) Rs. 524 (B) Rs. 272
(C) Rs. 300 (D) Rs. 340
47. A group of 210 students appeared in some test. The mean of $\frac{1}{3}$ rd of students is found to be 60. The mean of the remaining students is found to be 78. The mean of the whole group will be :
- (A) 72 (B) 74
(C) 76 (D) 80

48. Given below are two premises. Four conclusions are drawn from those two premises in four codes. Select the code that states the conclusion validly drawn.

Premises :

- (i) All saints are religious. (major)
(ii) Some honest persons are saints. (minor)

Codes :

- (A) All saints are honest.
(B) Some saints are honest.
(C) Some honest persons are religious.
(D) All religious persons are honest.

$$\begin{array}{l} A \\ S-R \\ H-S \end{array}$$

A E
1 0

49. Which of the following pramanas are accepted by Vaisheshika philosophy ?

- (1) Pratyaksa
(2) Anumana
(3) Sabda
(4) Upamana
(5) Arthapatti
(6) Anupalabdhi

Choose the correct answer from the options given below :

- (A) (1) and (2) only (B) (3) and (4) only
(C) (5) and (6) only (D) (3) and (5) only

50. A deductive argument is invalid if :

- (A) Its premises and conclusion are all true
(B) Its premises and conclusion are all false
(C) Its premises are all false but its conclusion is true
(D) Its premises are all true but its conclusion is false