UGC NET Paper 1 – 25 June Morning

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

The following table shows the number of students who have qualified in four different competitive exams (A-D) from 10 different states 1-10. In the table, figures are expressed partially in absolute terms and partially as a percentage of the total qualified population in the state for the four exams. Based on the data in the table, answer the questions that follow.

State-wise Performance Details of Students in Four Exams

State	Exam A	Exam B	Exam C	Exam D
1	5100	24%	4260	900
2	1450	1830	36%	368
3	31%	1120	1750	28%
4	2128	1950	35%	940
5	14%	1350	810	38%
6	736	41%	832	556
7	2940	45%	1808	224
8	12%	48%	1326	14%
9	484	1246	20%	934
10	3354	30%	3330	10%

What is the total number of students who qualified in Exam-A from all the states together?

1. 17604
2. 18604
3. 19604
4. 20604

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

The following table shows the number of students who have qualified in four different competitive exams (A-D) from 10 different states 1-10. In the table, figures are expressed partially in absolute terms and partially as a percentage of the total qualified population in the state for the four exams. Based on the data in the table, answer the questions that follow.

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Number of students qualifying Exam-A from State-4 is approximately _____% more than those qualifying Exam-D from State-8 and State-10 together.

1. 16.41
2. 17.41
3. 15.33
4. 14.67

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

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What is the ratio of the total number of students qualifying from State-3 to those qualifying from State-8?

1. 3:2
2. 5:3
3. 35:51
4. 70:51

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

The following table shows the number of students who have qualified in four different competitive exams (A-D) from 10 different states 1-10. In the table, figures are expressed partially in absolute terms and partially as a percentage of the total qualified population in the state for the four exams. Based on the data in the table, answer the questions that follow.

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10	3354	30%	3330	10%

Total number of students qualifying Exam-C from State-7 and State-9 together is approximately _____ times of those qualifying Exam-A from all the states together.

1. 0.11
2. 0.13
3. 0.22
4. 0.17

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

The following table shows the number of students who have qualified in four different competitive exams (A-D) from 10 different states 1-10. In the table, figures are expressed partially in absolute terms and partially as a percentage of the total qualified population in the state for the four exams. Based on the data in the table, answer the questions that follow.

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6	736	41%	832	556
7	2940	45%	1808	224
8	12%	48%	1326	14%
9	484	1246	20%	934
10	3354	30%	3330	10%

What is the difference between the number of students qualifying Exam-B from all the states together and those qualifying Exam-A from all the states together?
1. 2166
2. 2233
3. 2333
4. 2466

6. In the context of test validity, substantive validity refers to _____
1. Examination of how well the test items measure the construct under consideration.
2. Studies that are concerned with the basic concepts forming the core of the construct under consideration.
3. The confidence with which the scores obtained on the test can be generalised over different samples and population.
4. The effect of use of invalid scores for making decisions.

7. Arrange these stages of Inductive approach to teaching- learning
A. Organisation of data
B. Framing tentative solutions
C. Elimination and verification
D. Recognition of the problem
E. Searching for data
Choose the **correct** answer from the options given below:
1. C, D, E, A, B
2. A, B, C, D, E
3. B, C, D, E, A
4. D, E, A, B, C

8. In the context of AI, NRF may consider which of the following three pronged approaches to expand research in technology?
A. Developing and Deploying application based research
B. Develop Global lab for AI based research
C. Advancing core AI research
D. Generate the funds for crucial AI research
E. Advancing international research
Choose the **correct** answer from the options given below:
1. A, B and C only
2. A, C and E only
3. D and E only
4. A, C and D only

9. Match the **LIST-I** with **LIST-II**

LIST-I – Classification of Learning

A. Non-associative Learning

B. Associative Learning

C. Non-declarative / implicit

D. Declarative / explicit

LIST-II – Memory

I. Does not require conscious recollection

II. Habituation

III. Classical conditioning

IV. Semantic memory

Choose the ***correct*** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-I, D-IV
3. A-II, B-III, C-IV, D-I
4. A-III, B-IV, C-I, D-II

10. Match the **LIST-I** with **LIST-II**

LIST-I – GROUP OF TEACHING MODELS

A. Social Interaction Model

B. Behaviour Altering Model

C. Information Development Model

D. Personal Basis Model

LIST-II – MODELS OF TEACHING

I. Programmed Instruction Style Model

II. Gagne Model-Sensory Memory Model

III. Group Investigation Model

IV. Non-directive Model

Choose the ***correct*** answer from the options given below:

1. A-I, B-II, C-III, D-IV
2. A-II, B-III, C-I, D-IV
3. A-III, B-I, C-II, D-IV
4. A-IV, B-III, C-II, D-I

11. Which type of longitudinal research study involves repeatedly studying the exact same individual over an extended period of time to track individual-level changes?

1. Trend Study
2. Cross-Sectional Study
3. Cohort Study
4. Panel Study

12. Data sets representing four different population 1, 2, 3 and 4 are given in A-D below. Compute variance for each of these four populations and arrange them in ascending order.

A. Population 1 : {1, 2, 3, 6}

B. Population 2 : {10, 11, 12, 13}

C. Population 3 : {1, 1, 4, 4}

D. Population 4 : {5, 5, 5, 5}

1. D, B, C, A
2. A, B, C, D
3. B, A, D, C
4. C, D, A, B

13. Identify the correct sequence of steps (A-D) for the core cyclical process of Action Research.
A. Reflect
B. Observe
C. Act
D. Plan
Choose the **correct** answer from the options given below.
1. A, C, B, D
2. B, A, D, C
3. D, C, B, A
4. C, B, A, D

14. Which of the following statements disagrees with a post-positivist approach to research?
A. Absolute truth can be discovered through empirical observations and measurements.
B. There is a single, objective reality that can be understood perfectly.
C. Researchers can not influence the research process and should remain entirely objective.
D. Knowledge is conjectural and our understanding of reality is never complete or final.
Choose the **correct** answer from the options given below:
1. A, B and C only
2. A, B, C and D
3. A and D only
4. B and C only

15. Match the **LIST-I** with **LIST-II**
LIST-I – Level of Measurement
A. Nominal
B. Ordinal
C. Interval
D. Ratio
LIST-II – Description
I. Data has an order, but the difference between values are not necessarily equal (e.g., Letter grades : A, B, C)
II. Data has an order and the difference between values is significant and consistent (equal intervals) plus a true, meaningful zero point. (e.g., Height)
III. Data is categorised with no inherent order or ranking. Values are just labels. (e.g., eye color)
IV. Data has an order and the difference between values is significant and consistent (equal intervals). However it lacks a true zero point; zero is arbitrary. (e.g., Temperature in Celsius)
Choose the ***correct*** answer from the options given below:
1. A-I, B-III, C-II, D-IV
2. A-III, B-I, C-IV, D-II
3. A-II, B-I, C-IV, D-III
4. A-IV, B-I, C-III, D-II

16. Public Communication tends to occur within
1. A more formal and structured setting
2. An informal setting
3. A more formal and unstructured setting
4. An informal and structured setting

17. Which of the following theory of mass media explain how the media ‘ought to’ or can be ‘expected to’ operate under the prevailing set of political-economic circumstances?
1. Normative Theories
2. Hypodermic/Bullet Theory
3. Individual Differences Theory
4. Cognitive Dissonance Theory

18. Arrange the H.D. Lasswell model of communication in correct sequence
A. In which channel
B. With what effect
C. Who
D. To whom
E. Says what
Choose the **correct** answer from the options given below:
1. A, B, C, D, E
2. C, E, A, D, B
3. E, D, C, B, A
4. B, A, C, E, D

19. What among the following are known as Interactive Communication?
A. Video-on-demand
B. Individual reflection
C. Tele-shopping
D. Meditation
E. Communication via the 'new' media
Choose the **correct** answer from the options given below:
1. B and D only
2. A, B and C only
3. B, C and D only
4. A, C and E only

20. Match the **LIST-I** with **LIST-II**
LIST-I – System
A. Communication
B. Production
C. Defence
D. Social Control
LIST-II – Functions
I. To maintain order in the society
II. To protect their domain against intruders
III. To create goods and services both for their needs and for barter and exchange
IV. A system through which people could exchange symbols and thus propagate learning at a much accelerated rate
Choose the ***correct*** answer from the options given below:
1. A-I, B-II, C-III, D-IV
2. A-IV, B-III, C-II, D-I
3. A-III, B-IV, C-I, D-II
4. A-II, B-IV, C-III, D-I

21. A man (M_1) can do a piece of work in 10 days. Another man (M_2) can do the same work in 12 days and a third man (M_3) can complete the same work in 15 days. Find the number of days, if all the three men can do the same work together.
1. $3\frac{5}{12}$
2. $3\frac{5}{11}$
3. 4
4. $3\frac{7}{11}$

22. Which of the following are correct?
A. The average of first 100 natural numbers = 55
B. The average of all odd numbers and the average of all even numbers from 1 to 45 respectively is 23 and 23.
C. The average of first 5 positive multiples of 5 = 15
D. If the average of four consecutive even numbers is 27, then the greatest number is 30.
Choose the **correct** answer from the options given below:
1. A, B and C only
2. B, C and D only
3. A, B and D only
4. A, C and D only

23. Arrange the following data sets according to the range (Maximum value - Minimum value) in ascending order.
A. −8, 0, 2, 4, −5, 9
B. −5, −6, −1, 17, 7, 15
C. −3.6, −9.2, −1, 8, 11, 2
D. −2.7, −1.5, 3, 12, 6, 13.4
Choose the **correct** answer from the options given below:
1. C, B, D, A
2. D, A, C, B
3. A, D, C, B
4. B, C, D, A

24. In a certain code language, ‘HONEY’ is written as G4M2X. How ‘PETROL’ shall be written in that language?
1. O2SQNK
2. ODSQNK
3. O2SQ4K
4. ODSQ4K

25. Find the number that can replace the question mark(?) in the series given below.
$\frac{1}{3}, \frac{4}{3}, 3, \frac{16}{3}, \frac{25}{3}, ?$
1. $\frac{49}{3}$
2. 12
3. 8
4. 4

26. Which of the following statements are true?
A. In classical Indian logic all fallacies are material fallacies.
B. Nyāya syllogism is formal material.
C. Nyāya syllogism is deductive-inductive.
D. Nyāya philosophy regards deduction and induction as separate processes.
Choose the **correct** answer from the options given below:
1. C and D only
2. A and D only
3. A, B and C only
4. A, B and D only

27. Which of the following fallacies arise because too much is assumed in the premises, thereby, making them unwarranted?
A. Hasty Generalization
B. Complex Question
C. Argument from Ignorance
D. Begging the Question
Choose the **correct** answer from the options given below:
1. A and D only
2. B and C only
3. A and C only
4. B and D only

28. Which of the following sources of knowledge are accepted by the Buddhists?
A. Inference (anumāna)
B. Analogy (upmāna)
C. Postulation (arthāpatti)
D. Perception (Pratyakṣa)
Choose the **correct** answer from the options given below:
1. A and B only
2. B and D only
3. A and D only
4. A, B, C and D

29. Identify the fallacy committed in the following argument: "All bats are mammals. No rats are bats. Therefore, no rats are mammals."
1. Existential fallacy
2. Illicit process of the major term
3. Illicit process of the minor term
4. Exclusive premises

30. Which of the following techniques of inductive inference are included in Mill's method?
A. The method of agreement.
B. The method of difference.
C. The method of residues.
D. The method of concomitant variation.
Choose the **correct** answer from the options given below:
1. A and B only
2. B and C only
3. A and C only
4. A, B, C and D

31. Sir Tim Berners-Lee is considered as the "Father of the WWW" because he _____.
1. currently owns the WWW and became a billionaire from his invention.
2. created the software system for accessing information across the Internet in 1989 through three key inventions, namely HTML, HTTP and URL/URI
3. invented the Internet
4. designed a series of machines that remained the fastest in the world for over three decades, from 1964 to 1996

32. Encryption is one way of securing data stored on a file server. Which of the following best describes this process of encryption?
1. Compressing the data for fast retrieval and to minimize storage
2. Decoding the stored data so that it can be used by authorized users
3. Preventing unauthorized users from accessing files on the server
4. Modifying the stored data so that it is unusable by an unauthorized user

33. Identify the correct order of (A-D) to fill in the missing terms in the paragraph given below.
_____ is _____ memory because it is lost when the power is turned off. _____ is _____ memory used for permanent storage of startup instructions.
A. Non-volatile
B. Volatile
C. ROM
D. RAM
Choose the **correct** answer from the options given below:
1. A, C, D, B
2. D, B, C, A
3. B, A, C, D
4. D, A, C, B

34. Which of the following pairs of ICT acronyms and their expansions are correctly matched?
A. VPN - Virtual Personal Network
B. CPU - Computer Processing Unit
C. OMR - Optical Mark Recognition
D. PDA - Personal Digital Assistant
Choose the **correct** answer from the options given below:
1. A and B only
2. B, C and D only
3. A, C and D only
4. C and D only

35. Match the **LIST-I** with **LIST-II**
LIST-I – (Digital Platform)
A. Wiki
B. Facebook
C. Instagram
D. Blog
LIST-II – (Primary Vibe)
I. Visual storytelling through photos, filters, reels and "stories".
II. Collaborative website that allows multiple user to create, edit and organise content directly from their web browsers.
III. Dynamic with posts typically appearing in reverse chronological order (the newest entry at top).
IV. Personal social networking for family and friends.
Choose the ***correct*** answer from the options given below:
1. A-II, B-IV, C-I, D-III
2. A-I, B-III, C-II, D-IV
3. A-IV, B-II, C-III, D-I
4. A-II, B-III, C-IV, D-I

36. Night time permissible noise level standard (L_{eq}) for sensitive areas such as educational institutions up to a distance of 100 meter around them is
1. 50 dB
2. 45 dB
3. 40 dB
4. 35 dB

37. In 2015, UN General Assembly adopted, the 2030 Agenda for Sustainable Development, with 17 Sustainable Development Goals (SDGs). Which of the following SDGs calls upon to "take urgent action to combat climate change and its impacts"?
1. SDG - 4
2. SDG - 9
3. SDG - 13
4. SDG - 17

38. Arrange the following in chronological order starting from older to recent:
A. “Montreal Protocol” for control of Ozone Depleting Substances
B. “United Nations Conference on human Environment”
C. “United Nations Conference on Environment and Development” (UNCED)
D. “Paris agreement” on global climate change
E. “Kyoto Protocol” to control GHGs emissions
Choose the **correct** answer from the options given below:
1. B, A, E, D, C
2. B, A, D, C, E
3. B, A, C, E, D
4. A, B, C, D, E

39. Which of the following are “Ex-situ” methods for conservation of biological diversity?
A. Botanical gardens
B. National parks
C. Seed banks
D. Sacred groves
E. Zoo
Choose the **correct** answer from the options given below:
1. A, B and E only
2. B, C, D and E only
3. A, C and E only
4. A, B, C and E only

40. Match the **LIST-I** with **LIST-II**
LIST-I – (Biosphere Reserves)
A. Simlipal
B. Cold desert
C. Seshachalam
D. Pachmarhi
LIST-II – (Location)
I. Andhra Pradesh
II. Madhya Pradesh
III. Odisha
IV. Himachal Pradesh
Choose the ***correct*** answer from the options given below:
1. A-IV, B-II, C-I, D-III
2. A-III, B-IV, C-I, D-II
3. A-I, B-III, C-IV, D-II
4. A-I, B-IV, C-III, D-II

41. Choose the fact that is NOT true about the Indian Council of Historical Research:
A. It was established in 1992.
B. It has six regional centres.
C. Its prime objective is to give proper direction to historical research.
D. It was established under the Societies Registration Act XXI of 1860.
Choose the **correct** answer from the options given below:
1. A & B only
2. B & D only
3. C & D only
4. B & C only

42. The NEP 2020 seeks to “ensure inclusive and equitable quality education and promote lifelong learning opportunities for all” in which goal of the 2030 Agenda for Sustainable Development?
1. SDG 4
2. SDG 3
3. SDG 1
4. SDG 6

43. The Gender Parity Index for Gross Enrolment Ratio records the ratio of females to males for gross enrolment ratio in
1. tertiary education
2. primary education
3. secondary education
4. education at all levels

44. As per NEP 2020, the goals of Early Childhood Care and Education are:
A. Better overall learning
B. Cosmetic development
C. Development
D. Well being
E. Stitch craft education
Choose the **correct** answer from the options given below:
1. A, C & D only
2. A, B & C only
3. A, D & E only
4. B, D & E only

45. Match the **LIST-I** with **LIST-II**
LIST-I – Thinkers
A. Swami Dayananda
B. M.K. Gandhi
C. Swami Vivekananda
D. Rabindranath Tagore
LIST-II – (Quotes)
I. A child educates itself
II. A teacher can never truly teach, until he is still learning himself.
III. The true textbook for the pupils is his teacher.
IV. Girls should be sent to girls’ school and boys to boys’ school.
Choose the ***correct*** answer from the options given below:
1. A-II, B-I, C-III, D-IV
2. A-III, B-IV, C-I, D-II
3. A-IV, B-III, C-I, D-II
4. A-I, B-II, C-III, D-IV

46. Read the following passage and then answer the question:

We tend to assume that we can build bridges between the individual islands of our own experience through language. To some extent, this must be true - using conventional symbols, we stimulate the senses of other people and hope that they perceive our symbols. But maybe we are not really interested in the transfer of symbols - what we really want to do is transfer something of our world of experience to other people, and to receive some experience back. It is only because of our profound material limitations that we have to do it via abstract symbols. We long for a way to escape our isolation, for a way to transfer content directly and without distorting intermediaries, which we would love to bypass, if only we could.

As far as we know, all living creatures share our predicament. Like us, animals resort to symbols - they use coloured feathers, complex dances, mating songs, chemical markers and so on. We are fortunate in that our system of abstract symbols is highly evolved and able to represent far more complex information and experiences. With literature, and particularly with poetry, we can do remarkable things.

The use of conventional symbols
1. helps escape the world
2. creates a sense of isolation
3. stimulates the senses of other people
4. cannot transfer meaning

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Language helps to build bridges
1. between abstract symbols
2. between distorted intermediaries
3. between various poems
4. between individual experiences

48. Read the following passage and then answer the question:

We tend to assume that we can build bridges between the individual islands of our own experience through language. To some extent, this must be true - using conventional symbols, we stimulate the senses of other people and hope that they perceive our symbols. But maybe we are not really interested in the transfer of symbols - what we really want to do is transfer something of our world of experience to other people, and to receive some experience back. It is only because of our profound material limitations that we have to do it via abstract symbols. We long for a way to escape our isolation, for a way to transfer content directly and without distorting intermediaries, which we would love to bypass, if only we could.

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The shared predicament of all living beings can be described as
1. the smooth use of highly evolved abstract symbols
2. the urge to write creatively
3. using symbols to share experiences
4. the desire to be loved and procreate

49. Read the following passage and then answer the question:

We tend to assume that we can build bridges between the individual islands of our own experience through language. To some extent, this must be true - using conventional symbols, we stimulate the senses of other people and hope that they perceive our symbols. But maybe we are not really interested in the transfer of symbols - what we really want to do is transfer something of our world of experience to other people, and to receive some experience back. It is only because of our profound material limitations that we have to do it via abstract symbols. We long for a way to escape our isolation, for a way to transfer content directly and without distorting intermediaries, which we would love to bypass, if only we could.

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According to the passage, we share our experience via abstract symbols because of:
1. Isolation
2. Material Limitations
3. Lack of freedom
4. Psychological limitations

50. Read the following passage and then answer the question:

We tend to assume that we can build bridges between the individual islands of our own experience through language. To some extent, this must be true - using conventional symbols, we stimulate the senses of other people and hope that they perceive our symbols. But maybe we are not really interested in the transfer of symbols - what we really want to do is transfer something of our world of experience to other people, and to receive some experience back. It is only because of our profound material limitations that we have to do it via abstract symbols. We long for a way to escape our isolation, for a way to transfer content directly and without distorting intermediaries, which we would love to bypass, if only we could.

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Human beings can do remarkable things with
1. literature and poetry
2. Complex dances
3. chemical markers and songs
4. isolation and experience