UGC NET Paper 1 – 23 June Morning

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

Study the following table and answer the questions from 01 to 05.

The following table shows total number of students in two departments namely, P and Q, in each college out of total five colleges. It also shows the ratio of Boys and Girls in both the departments in each college.

College	Total students in P and Q together	% of students in 'P' department	Ratio of Boys & Girls in 'P' department	Ratio of Boys & Girls in 'Q' department
A	450	48%	2:1	4:5
B	360	55%	7:2	1:2
C	420	60%	5:4	11:10
D	300	55%	1:2	2:1
E	250	50%	3:2	2:3

Find the difference between the average number of girls in the department P of the colleges D and E and the average number of boys in the department Q of the colleges A and B :

1. 1
2. 10
3. 2
4. 20

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

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In the department 'P' of college 'C' the ratio of the number of boys who got first, second and third division, respectively is 1:2:4.

Find the total number of boys who secured first and third division in the department P of college 'C'.

1. 40
2. 60
3. 100
4. 140

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

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Total number of boys in the department 'P' of 'B' and 'E' colleges together is how much percent of total number of girls in the department 'Q' of C and D colleges taken together?

1. 54.59%
2. 183.20%
3. 76.42%
4. 130.86%

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

Study the following table and answer the questions from 01 to 05.

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E	250	50%	3:2	2:3

What is the ratio of total girls in 'Q' departments of 'B' and 'D' colleges taken together to the total boys in 'P' departments of 'C' and 'D' colleges taken together?

1. 163:195
2. 51:65
3. 195:163
4. 51:67

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

Study the following table and answer the questions from 01 to 05.

The following table shows total number of students in two departments namely, P and Q, in each college out of total five colleges. It also shows the ratio of Boys and Girls in both the departments in each college.

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E	250	50%	3:2	2:3

Find the total number of girls in the department P of all the colleges taken together:

1. 956
2. 1780
3. 824
4. 388

6. Physics and Mathematics can be studied together due to:
1. Theory of Specific Objectives
2. Theory of Absolute truth
3. Theory of Identical Elements
4. Theory of monarchic intelligence

7. John Dewey hails Education as a tripolar process involving:
1. Learner - Teacher - Society
2. Learner - Teacher - Examination
3. Educational objectives - Learning Experiences - Board exams
4. Curriculum - Assessment - Evaluation

8. Arrange the following according to Maslow's hierarchy of needs
A. Esteem Needs
B. Safety Needs
C. Love and belongingness
D. Physiological Needs
E. Self actualisation
Choose the **correct** answer from the options given below:
1. B, C, D, A, E
2. E, A, D, B, C
3. B, E, D, A, C
4. D, B, C, A, E

9. Select CORRECT statements
A. The Oedipus Complex involves love for father and hostility towards the mother.
B. The Oedipus Complex involves love for mother and hostility towards the father.
C. The Oedipus and Electra Complexes occur during genital phase.
D. The Electra Complex involves love for father and jealousy for mother.
E. The Electra Complex involves love for mother and jealousy for father.
Choose the **correct** answer from the options given below:
1. A, C and E only
2. A, B, C and D only
3. B, D and E only
4. B and D only

10. Match the **LIST-I** with **LIST-II**
LIST-I – Factors affecting teaching style
A. Institutional Factor
B. Career-stage Factor
C. Curriculum Factor
D. Personal Factor
LIST-II – Example
I. Assessment policy
II. Learning style
III. Diversification and serenity
IV. Culture and learning climate
Choose the **correct** answer from the options given below:
1. A-II, B-III, C-IV, D-I
2. A-III, B-I, C-IV, D-II
3. A-IV, B-III, C-I, D-II
4. A-I, B-IV, C-II, D-III

11. Francis Bacon advocated :
1. Moving from general to particular.
2. Arriving at conclusion through the evidence of many individual observations.
3. Combining deduction and induction in a systematic manner.
4. Working within the framework of major premise

12. Arrange the following levels of measurement in an order from higher to lower level :
A. Nominal
B. Ordinal
C. Ratio
D. Interval
Choose the **correct** answer from the options given below:
1. A-B-C-D
2. C-D-B-A
3. D-C-B-A
4. D-C-A-B

13. Arrange the following steps sequentially as followed in deduction.
A. Revision of theory
B. Hypothesis confirmed or rejected
C. Data collection
D. Hypothesis Formulation
E. General theories
Choose the **correct** answer from the options given below:
1. A, B, C, D, E
2. B, C, A, D, E
3. D, C, B, E, A
4. E, D, C, B, A

14. Which one of the following are NOT concerns about ethical principles in social research?
A. No racial comments to the identity of the participants
B. Informed consent
C. No invasion of privacy
D. Size of sample
E. Economic status of researcher
Choose the **correct** answer from the options given below:
1. A & B only
2. B & C only
3. C & D only
4. D & E only

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

LIST-I – Measurement

A. Validity
B. Reliability
C. Practicality
D. Accuracy

LIST-II – Seeks to

I. The extent to which an instrument measures what it is supposed to measure
II. To what extent the instrument gives consistent results
III. To what extent measuring instrument can be judged in terms of economy, convenience and interpretability
IV. It should be a true representation of the observation of underlying characteristics

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

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

16. Who among the following has developed the mathematical model of communication?

1. Marshall McLuhan
2. Shannon and Weaver
3. C. Osgood
4. Wilbur Schramm

17. According to two-step flow model or theory of communication, the people who pass on information to others are -

1. Opinion verticals
2. Opinion shooters
3. Opinion leaders
4. Opinion receivers

18. Arrange the development of the following in reverse chronological order.

A. Telegraph
B. Facebook
C. Television
D. Internet
E. Telephone

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

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

19. In interpersonal communication, components of intimacy are

A. Mutuality
B. Judgemental
C. Trust
D. Jealousy
E. Affection

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

1. A, C & E only
2. A, C & D only
3. B, C & D only
4. C, D & E only

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

LIST-I – Media organization

A. Ogilvy & Mather (O & M)

B. Reuters

C. Hotstar

D. WION

LIST-II – category

I. News Agency

II. OTT

III. News channel

IV. Advertising agency

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

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

21. The numbers a, b, c are such that when divided by 8, they leave the remainders 5, 7, 9 respectively. Then the remainder when 2a+3b+4c is divided by 4 is equal to

1. 2
2. 3
3. 5
4. 7

22. Arrange the following in increasing order

A. Total compound interest on ₹10,000 at 5% interest for 2 years

B. Total compound interest on ₹5,000 at 10% rate of interest for 2 years

C. Total simple interest on ₹10,000 at 5% rate of interest for 2 years

D. Total simple interest on ₹5,000 at 10% rate of interest for 3 years

E. Total interest when ₹5,000 invested with 5% compound interest for 2 years and with simple interest of 10% for 1 year

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

1. A<B<D<C<E
2. B<A<C<D<E
3. C<E<A<B<D
4. D<E<B<A<C

23. If the sum of 5 consecutive odd numbers is 225, then which of the following are correct?

A. Average lies in the interval (36, 47)

B. Smallest number is less than 40

C. Highest number is greater than 42

D. The difference between highest and lowest number is 8

E. Average is divisible by 3 and 5

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

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

24. Match the **LIST-I** with **LIST-II**
If 10% of S=12% of T, then match the following :
LIST-I
A. x as in 15% of S = x% of T
B. y as in 25% of S = y% of T
C. z as in 15% of T = z% of S
D. p as in 30% of T = p% of S
LIST-II
I. 25
II. 12.5
III. 30
IV. 18
Choose the **correct** answer from the options given below:
1. A-I, B-IV, C-III, D-II
2. A-III, B-II, C-IV, D-I
3. A-I, B-II, C-III, D-IV
4. A-IV, B-III, C-II, D-I

25. Match the **LIST-I** with **LIST-II**
The price of an article is increased by x% and then decreased by y%. Let T be the % of change in the final price then match the following
LIST-I
A. If x=20, y=25 then T equals
B. If x=30, y=20 then T equals
C. If x=10, y=20 then T equals
D. If x=50, y=30 then T equals
LIST-II
I. 4
II. -10
III. -12
IV. 5
Choose the **correct** answer from the options given below:
1. A-II, B-I, C-III, D-IV
2. A-I, B-II, C-IV, D-III
3. A-IV, B-III, C-II, D-I
4. A-III, B-II, C-I, D-IV

26. In the classical square of opposition, the relation that exists between A and E propositions is :
1. Contraries Relation
2. Sub-contraries Relation
3. Contradictory Relation
4. Subalternation Relation

27. Arrange the following steps according to Inductive reasoning
A. Specific cases and observation of pattern
B. Hypothesis
C. Data collection
D. Analysis
E. General theory
Choose the **correct** answer from the options given below:
1. A, C, D, E, B
2. B, D, E, C, A
3. A, B, C, D, E
4. E, D, C, B, A

28. Which of the following are correct for the II❑nd Figure:
A. Major term is the subject of Major premise
B. Major term is the subject of Conclusion
C. Middle term is the predicate of Conclusion
D. Middle term is the predicate of Minor premise
E. Middle term is the predicate of Major premise
Choose the **correct** answer from the options given below:
1. A, B and C only
2. B, C and D only
3. C, D and E only
4. A, D and E only

29. Which of the following are the parts of Aristotelian Syllogism?
A. Major Premises
B. Minor Premises
C. Conclusion
D. Symbols
E. Truthfulness
Choose the **correct** answer from the options given below:
1. A, B and C only
2. B, C and E only
3. C, D and E only
4. A, B and E only

30. Match the **LIST-I** with **LIST-II**
LIST-I – Relation
A. Contrary Relation
B. Sub-contrary Relation
C. Contradiction Relation
D. Sub-alternation Relation
LIST-II – Between
I. Between A and O proposition
II. Between A and E proposition
III. Between I and O proposition
IV. Between E and O proposition
Choose the **correct** answer from the options given below:
1. A-I, B-IV, C-III, D-II
2. A-III, B-I, C-II, D-IV
3. A-IV, B-II, C-III, D-I
4. A-II, B-III, C-I, D-IV

31. JPEG stands for
1. Joint Photo Expert Graphic
2. Joint Photographic Experts Group
3. Joint Picture Expert Group
4. Joint Picture Expert Graphic

32. Arrange the steps in sequence for a customer who goes into a Restaurant to pay for meal using Chip and PIN
A. PIN is entered and card is checked, if it is valid.
B. If everything checks ok, transaction is authorized.
C. PIN is read from the chip, on the card, if they are same, transaction can proceed.
D. Amount is deducted from the customer's account.
E. If the card is not valid, transaction is terminated.
Choose the **correct** answer from the options given below:
1. C, A, E, B, D
2. A, C, E, B, D
3. C, A, B, E, D
4. A, C, D, B, E

33. Computer System supports which of the following number systems?
A. Roman Number
B. Octal Number
C. Hexadecimal Number
D. Vedic Number
E. Decimal Number
Choose the **correct** answer from the options given below:
1. B, C, D only
2. A, B, C only
3. C, D, E only
4. B, C, E only

34. Which of the following are used to present data in pictorial form?
A. Pie Charts
B. Cumulative Frequency Table
C. Bar Charts
D. Non-Cumulative Frequency Table
E. Line Graphs
Choose the **correct** answer from the options given below:
1. A, B only
2. B, D only
3. A, C, E only
4. C, D, E only

35. Match the **LIST-I** with **LIST-II**
LIST-I – Topology
A. Star Topology
B. Mesh Topology
C. Bus Topology
D. Ring Topology
LIST-II – Description
I. First and last node connected to each other
II. Each node connected to central node
III. Each node connected to a common transmission
IV. Each node connected to each other nodes
Choose the **correct** answer from the options given below:
1. A-I, B-II, C-IV, D-III
2. A-II, B-I, C-IV, D-III
3. A-I, B-II, C-III, D-IV
4. A-II, B-IV, C-III, D-I

36. Which of the following is an example of most open-access resource?
1. Aquifers
2. Forests
3. Grasslands
4. Open Ocean and its fish

37. Arrange the following coal-types according to their increasing heat and carbon content
A. Lignite
B. Bituminous
C. Peat
D. Sub-bituminous
E. Anthracite
Choose the **correct** answer from the options given below:
1. B, A, E, D, C
2. C, A, D, B, E
3. E, B, D, A, C
4. A, E, C, D, B

38. Arrange the following climate change risk framework and management processes sequentially
A. Identify risks and vulnerabilities
B. Identify adaptation and mitigation options
C. Implement and monitor progress
D. Assess climate change impact
E. Establish decision making criteria
Choose the **correct** answer from the options given below
1. A, B, C, D, E
2. A, C, B, D, E
3. B, A, D, E, C
4. D, A, E, B, C

39. Natural gas flares is one of the environmental hazards of Carbon fuel extraction. Which of the following statements are correct related to flare gas?
A. It is a byproduct of oil and gas recovery
B. It produces clouds of dust
C. It is a byproduct of landfill gas production
D. It introduces Sulphur dioxide into the atmosphere
E. Microorganisms can only be used to mitigate this hazard
Choose the **correct** answer from the options given below:
1. A, B, C only
2. A, C, D only
3. B, D, E only
4. B, C, E only

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

LIST-I – Atmospheric trace gas

A. SO_2

B. NO_2

C. NH_3

D. CO

LIST-II – Major Source

I. Biological decay

II. Volcanoes

III. Forest fire

IV. Bacterial action in soil

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

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

41. The earlier scheme of 'National Program of Mid-Day Meal in Schools' is renamed as :

1. PM - POSHAN
2. PM - Bharpet
3. PM - SHRI
4. PM - khao, piyo aur padho

42. Arrange following lyrics of Vande Matram sequentially :

A. Sukhdam vardam, matram

B. Sujalam suflam

C. Malyaj sheetalam

D. Pulla kusumita, drumdal shobhinim

E. Shasya shyamalam, matram

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

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

43. Which of the following are requisites of Kriya-yoga?

A. Tapah

B. Sravana

C. Svādhyāya

D. Nididhyāsana

E. Iśvara-pranidhāna

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

1. A, B and C only
2. A, C and E only
3. B, C and D only
4. C, D and E only

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

LIST-I – Commission/Policy

A. University Education Commission
B. Kothari Commission
C. NPE 1986
D. RUSA

LIST-II – Recommendation

I. Quality improvement and access to higher education
II. Strengthening infrastructure and state HEIs
III. Strengthen university reforms and research
IV. 10+2+3

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

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

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

LIST-I – Divisions (Kautilya)

A. Anvikshaki
B. Trayi
C. Varta
D. Dandaniti

LIST-II – Subject-matter

I. Study of veda
II. Art and science of governance
III. Science derived from subjective or metaphysical speculation
IV. Subjects related to agriculture, cattle rearing, trade

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

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

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

Some people use the terms ‘comic book’ and ‘graphic novel’ interchangeably, but critics and scholars are in general agreement that the two text types are not the same. A comic book tends to be part of a longer series and is usually structured sequentially around a simple storyline. A graphic novel usually involves a more complex plot structure, often divided into chapters, with deeper themes. Graphic novels include many of the same elements you would find in a traditional novel: characterization, foreshadowing, symbolism, allusions and so on; it’s just that a graphic novel takes you on a visual journey through the story rather than leaving everything to your imagination.

There is a general tendency to use the terms comic book and graphic novel :

1. Exclusively
2. Interchangeably
3. Separately
4. Distinctly

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

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A comic book tends to be part of a :
1. Shorter series
2. Abridged version
3. Summarized version
4. Longer series

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

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A comic book tends to be structured :
1. Sequentially around a complex storyline.
2. Sequentially around a simple storyline.
3. Randomly around a simple storyline.
4. Randomly around a complex storyline.

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

Some people use the terms ‘comic book’ and ‘graphic novel’ interchangeably, but critics and scholars are in general agreement that the two text types are not the same. A comic book tends to be part of a longer series and is usually structured sequentially around a simple storyline. A graphic novel usually involves a more complex plot structure, often divided into chapters, with deeper themes. Graphic novels include many of the same elements you would find in a traditional novel: characterization, foreshadowing, symbolism, allusions and so on; it’s just that a graphic novel takes you on a visual journey through the story rather than leaving everything to your imagination.

A graphic novel usually involves:
1. Chapters with simple themes
2. Chapters with deeper themes
3. Chapters with plain themes
4. Chapters with uncomplicated themes

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

Some people use the terms ‘comic book’ and ‘graphic novel’ interchangeably, but critics and scholars are in general agreement that the two text types are not the same. A comic book tends to be part of a longer series and is usually structured sequentially around a simple storyline. A graphic novel usually involves a more complex plot structure, often divided into chapters, with deeper themes. Graphic novels include many of the same elements you would find in a traditional novel: characterization, foreshadowing, symbolism, allusions and so on; it’s just that a graphic novel takes you on a visual journey through the story rather than leaving everything to your imagination.

A graphic novel takes the reader on a :
1. Visual journey
2. Memorable journey
3. Imaginative journey
4. Dream journey