UGC NET Paper 1 – 22 June Morning

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

Study the table below to answer the following question:
The following table shows the profits (in thousands) earned by five (5) shops A, B, C, D and E respectively during 2001-2004.

Shops	2001	2002	2003	2004
A	40	60	50	100
B	30	50	70	80
C	90	110	100	120
D	50	40	70	30
E	60	70	40	80

By what percent is the profit earned by A in 2004 more than the profit earned by D in 2003?
1. 233.33%
2. 30%
3. 42.86%
4. 70%

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

Study the table below to answer the following question:
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E	60	70	40	80

Which shop has the maximum percentage of change in profits for the pair of years 2001 and 2002?
1. E
2. C
3. B
4. A

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

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D	50	40	70	30
E	60	70	40	80

To earn a profit of 20% by each of C and E, what is the ratio of investments made by them in 2002?
1. 11:7
2. 3:2
3. 7:11
4. 2:3

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

Study the table below to answer the following question:
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C	90	110	100	120
D	50	40	70	30
E	60	70	40	80

By what percent the profit earned by C in 2002 is less than that in 2004?
1. 12%
2. 11%
3. 9.09%
4. 8.33%

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

Study the table below to answer the following question:
The following table shows the profits (in thousands) earned by five (5) shops A, B, C, D and E respectively during 2001-2004.

Shops	2001	2002	2003	2004
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C	90	110	100	120
D	50	40	70	30
E	60	70	40	80

Suppose, in the year 2004, the shop B made 200% profit of the investment it did and the shop C made 50% profit of the investment it did. What is the ratio of the investments done by shop B and C in the year 2004?
1. 2:3
2. 1:4
3. 1:6
4. 3:2

6. Melanin is the pigment which decides the tone and color of the skin. No amount of fairness cream can alter this. This is:
1. Memory based knowledge
2. Understanding based knowledge
3. Reflection based knowledge
4. Belief based knowledge

7. We remember the most by :
1. One-sense learning
2. Double sensory observation
3. Multi-sensory perception
4. Cramming and rote learning

8. Arrange following learning events as in a teaching plan:
A. Stimulating recall of prior knowledge
B. Providing feedback
C. Gain attention
D. Providing learning guidance
E. Enhancing retention and transfer
Choose the **correct** answer from the options given below:
1. D, B, C, E, A
2. C, E, A, D, B
3. A, D, C, E, B
4. C, A, D, B, E
9. Select CORRECT statements about Summative Evaluation:
A. It is done throughout learning process
B. It identifies gaps and misunderstandings in the learning process
C. It provides a numeric grade that summarizes how much student has learnt
D. It gives overall result of classroom instruction
E. It measures students' competency
Choose the **correct** answer from the options given below:
1. A, B and E only
2. B, C and D only
3. C, D and E only
4. A, B and C only
10. Match the **LIST-I** with **LIST-II**
LIST-I – Maxims of teaching
A. Empirical to Rational
B. Analysis to Synthesis
C. Known to Unknown
D. Concrete to Abstract
LIST-II – Approach
I. from real to intangible
II. from previous knowledge to new knowledge
III. from experience to argument
IV. Breaking complex problem to arrive at its solution
Choose the ***correct*** answer from the options given below:
1. A-I, B-IV, C-II, D-III
2. A-IV, B-III, C-II, D-I
3. A-III, B-IV, C-II, D-I
4. A-IV, B-III, C-I, D-II
11. A theory of the nature of social entities is known as :
1. Ontology
2. Epistemology
3. Methodology
4. Phenomenology
12. Arrange the following steps in the qualitative data analysis process.
A. Representing and interpreting the data
B. Coding the data
C. Organizing and preparing the data for analysis
D. Identifying themes
E. Developing a storyline interpretation
Choose the **correct** answer from the options given below:
1. B, A, D, E, C
2. E, A, C, D, B
3. C, B, D, E, A
4. A, B, C, D, E

13. Arrange the following steps sequentially in the inductive logic of research in a qualitative study:
A. Researcher looks for broad patterns, generalizations
B. Researcher analyses data to form themes and categories
C. Researcher poses generalizations or theories
D. Researcher asks questions to participants
E. Researcher gathers information about subjects of the study
Choose the **correct** answer from the options given below:
1. C, D, B, E, A
2. D, B, E, A, C
3. E, D, B, A, C
4. A, B, E, C, D
14. Which of the following are NOT research designs in social research.
A. Prescriptive
B. Experimental
C. Manipulative
D. Comparative
E. Longitudinal
Choose the **correct** answer from the options given below:
1. A, B only
2. B, C only
3. D, E only
4. A, C only
15. Match the **LIST-I** with **LIST-II**
LIST-I – Characteristic of tool
A. Validity
B. Reliability
C. Sensitivity
D. Objectivity
LIST-II – Description
I. To assess or measure the smallest change
II. Free from personal bias
III. Consistency in measurement or assessment
IV. Measuring what it is supposed to measure
Choose the ***correct*** answer from the options given below:
1. A-II, B-I, C-III, D-IV
2. A-II, B-III, C-I, D-IV
3. A-IV, B-III, C-I, D-II
4. A-IV, B-I, C-III, D-II
16. This is the study of the specific nonverbal behaviors or communication involving touch. This study is-
1. Pitch
2. Haptics
3. Chronemics
4. Vocalics
17. In practice of verbal communication, what is pitch?
1. Lack of sound or voice
2. Rate of speech or voice
3. Highness or lowness of voice
4. High definition sound

18. Arrange in chronological order:
A. Gerbner's model of communication
B. Aristotle's model of communication
C. Newcomb's model of communication
D. Dance's model of communication
E. Harold Lasswell's model of communication
Choose the **correct** answer from the options given below:
1. E, C, A, B & D
2. A, B, C, D & E
3. B, C, A, D & E
4. B, E, C, A & D

19. According to Garth J. Jowett and Victoria O'Donnell, the three forms of propaganda are-
A. White
B. Gold
C. Black
D. Grey
E. Blue
Choose the **correct** answer from the options given below:
1. B, C & E only
2. A, D & E only
3. B, C & D only
4. A, C & D only

20. Match the **LIST-I** with **LIST-II**
LIST-I – Elements
A. Encoder, Decoder, Interpreter
B. ABX
C. Who, says what, in which channel, to whom, with what effect
D. Helix
LIST-II – Communication model
I. F.E.X Dance
II. Newcomb
III. Osgood & Schramm
IV. Harold Lasswell
Choose the ***correct*** answer from the options given below:
1. A-I, B-II, C-IV, D-III
2. A-III, B-II, C-IV, D-I
3. A-II, B-III, C-IV, D-I
4. A-IV, B-III, C-I, D-II

21. The numbers N and M are such that
$N^2 + M^2 = 20$ and $N = M + 2$
Then the value of $N^4 + M^4$ is equal to-
1. 272
2. 256
3. 136
4. 226

22. Arrange the following in increasing order.

A. 7% of 70% of 700

B. x in 25% of x = (12.5)% of 180

C. y in $\frac{100\%\ of\ 3y}{4y+4}=\frac{1}{2}$

D. $\frac{a}{b}$ in $\frac{a^2}{18}+\frac{b^2}{18}=\frac{ab}{9}$

E. x in $x+10=\frac{75}{100}(2x+10)$

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

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

23. Which of the following statements are correct?

A. The sum of all odd natural numbers less than or equal to 30 is equal to 225

B. The sum of all even natural numbers less than or equal to 23 is equal to 132

C. Sum of all natural numbers less than or equal to 20 is 210

D. Unit digit in 7^{50} is 8

E. Unit digit in 4^{40} is 2

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

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

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

The population of a species is $(1210)^2$. If the population increases 10% annually, then match the following

LIST-I

A. Total population after 1 year

B. Total population after 2 year

C. Total population 1 year before

D. Total population 2 year before

LIST-II

I. 11^6

II. $11^3\times 10$

III. $11^3\times 10^3$

IV. $11^2\times 10^4$

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

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

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

LIST-I

A. Total % of increase if price increased successively by 25%, 20% and 10%

B. Total % of increase if price increased successively by 25% and 20% then decreased by 10%

C. Total % of decrease when price is increased by 25% and decreased successively by 20% and 10%

D. Total % of decrease when price is decreased successively by 25%, 20% and 10%

LIST-II

I. 46

II. 65

III. 35

IV. 10

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

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

26. 'Some chemicals are poisons', which term is distributed in this Categorical Proposition?

1. Only subject term
2. Only predicate term
3. Both subject and predicate terms
4. Neither subject nor predicate term

27. Identify following in the sequence of quantifier, quality, subject, predicate and copula in the statement 'All Indians are Citizens'.

A. Indians

B. All

C. are

D. Citizens

E. Affirmative

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

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

28. Which of the following are true in A- proposition?

A. Universal

B. Particular

C. Affirmative

D. Negative

E. Only subject term distributed

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

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

29. Throughout human history, emotions have been communicated primarily through -

(1) Verbal communication

(2) Non-verbal communication

(3) Political communication

(4) Formal communication

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

LIST-I – Example

A. Smoke

B. Fire

C. Hill

D. Universality of smoke and fire relation

LIST-II – Concept

I. Vyapti

II. Sadhya

III. Hetu (Linga)

IV. Paksha

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

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

31. Material used in making transistors is

1. Silicon
2. Aluminum
3. Copper
4. Iron

32. Arrange the following steps sequentially to be followed at an ATM to withdraw cash:

A. Customer selects the language option

B. Cash dispensed

C. Customer inserts the card into the ATM

D. Deny further transaction

E. PIN entered using keypad

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

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

33. Character-encoding standards also define internal representations of each character. Which of the following are the encoding forms?

A. UTF-8 (Unicode Transformation Format-8)

B. BCD-32 (Binary Coded Decimal-32)

C. UTF-16 (Unicode Transformation Format-16)

D. BCD-64 (Binary Coded Decimal-64)

E. UTF-32 (Unicode Transformation Format-32)

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

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

34. Users can protect their computer from hacking by using
A. Password for users
B. Encryption of files
C. Virus
D. Firewalls
E. Commercial sabotage
Choose the **correct** answer from the options given below:
1. A, B only
2. B, C, D only
3. A, B, D only
4. C, D, E only
35. Match the **LIST-I** with **LIST-II**
LIST-I
A. Podcasting
B. Blogs
C. Vlog
D. Webcasting
LIST-II
I. live content over the internet
II. Blog that uses video as its primary medium
III. Digital audio or video files containing meaningful content for learning
IV. Personal website that contains organized content
Choose the ***correct*** answer from the options given below:
1. A-IV, B-III, C-I, D-II
2. A-III, B-IV, C-I, D-II
3. A-IV, B-III, C-II, D-I
4. A-III, B-IV, C-II, D-I
36. The United Nations Climate Change Conferences are held according to:
1. United Nations Framework Conference on Climate Change
2. United Nations Framework Convention on Climate Change
3. United Nations Framework Workshop on Climate Change
4. United Nations Framework Meeting on Climate Change
37. Arrange the following Acts implemented in India in chronological order (Year of implementation)
A. The Environment Protection Act
B. The Air (Prevention and Control of Pollution) Act
C. The Water (Prevention and Control of Pollution) Act
D. The Public Liability Insurance Act
E. The Wildlife Protection Act
Choose the **correct** answer from the options given below:
1. A, C, B, E, D
2. C, B, A, D, E
3. D, B, C, A, E
4. E, C, B, A, D

38. Arrange the terrestrial ecosystems in descending order with respect to their monetary value of ecosystem services
A. Croplands
B. Grasslands
C. Forests
D. Swamps/ flood plains
E. Deserts
Choose the **correct** answer from the options given below:
1. A, B, C, D, E
2. B, C, D, E, A
3. C, B, A, D, E
4. D, A, B, E, C
39. Advantages of using 'Hydrogen' as alternative Fuel are,
A. Excellent emission characteristics
B. Minimal hydrocarbon generation
C. would be domestically produced
D. Cost is low
E. Big greenhouse advantage if derived from photovoltaic energy
Choose the **correct** answer from the options given below:
1. A, B, C, D only
2. A, B, C, E only
3. A, B, D, E only
4. A, C, D, E only
40. Match the **LIST-I** with **LIST-II**
LIST-I – Sustainable Development Goals (SDG)
A. Climate action
B. Clean water and sanitation
C. Partnerships for the Goals
D. Reduced inequalities
LIST-II – SDG-Number
I. SDG 6
II. SDG 10
III. SDG 13
IV. SDG 17
Choose the ***correct*** answer from the options given below:
1. A-II, B-III, C-I, D-IV
2. A-II, B-I, C-IV, D-III
3. A-III, B-IV, C-I, D-II
4. A-III, B-I, C-IV, D-II
41. This Act led to insertion of new article 21A after Article 21. The new article 21A deals with
1. Right to Information
2. Right to Education
3. Right to Food and Clean water
4. Right to access to sanitation and toilets

42. Arrange following Commissions/ Reports on Education chronologically:
A. Sargent Plan
B. University Education Commission
C. Acharya Rammurti Committee
D. Birla-Ambani Report
E. National Knowledge Commission
Choose the **correct** answer from the options given below:
1. B, A, D, C, E
2. E, C, D, B, A
3. D, A, B, E, C
4. A, B, C, D, E
43. Select CORRECT statements pertaining to contemporary education:
A. Since last 5 years, the government of India is spending around 6 percent of GDP on education.
B. Education is on Concurrent list and thus empowers states to formulate their own education policy.
C. The NEP 2020 recommends to alter the 10+2 with 6+7+4 system.
D. Viksit Bharat Shikshan Adhishthan Bill proposes to dissolve UGC and to open three other such institutions.
E. The NEP 2020 is the first to recommend mother-tongue as the basis for higher education.
Choose the **correct** answer from the options given below:
1. A & B only
2. B & D only
3. B & C only
4. C & E only
44. Match the **LIST-I** with **LIST-II**
LIST-I – Domain
A. Legal Education
B. Technical Education
C. Teacher Education
D. Pharmacy Education
LIST-II – Regulatory Body
I. AICTE
II. BCI
III. PCI
IV. NCTE
Choose the ***correct*** answer from the options given below:
1. A-IV, B-III, C-II, D-I
2. A-II, B-IV, C-I, D-III
3. A-II, B-I, C-IV, D-III
4. A-III, B-I, C-IV, D-II
45. Match the **LIST-I** with **LIST-II**
LIST-I – Yoganga
A. Niyama
B. Pratyahara
C. Pranayam
D. Yama
LIST-II – Feature
I. Withdrawal of the senses from their object
II. Five abstinences
III. Regulation of the breath
IV. Five observances
Choose the ***correct*** answer from the options given below:
1. A-IV, B-I, C-III, D-II
2. A-I, B-II, C-III, D-IV
3. A-III, B-IV, C-II, D-I
4. A-IV, B-II, C-III, D-I

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

Special terms that need to be defined appear in all three types of studies: (a) qualitative, (b) quantitative, and (c) mixed methods. In qualitative studies, because of the inductive, evolving methodological design, inquirers may define few terms at the beginning; although they may advance tentative definitions. Instead, themes (or perspective or dimensions) may emerge through the data analysis. In the procedure section, authors define these terms as they surface during the process of research. This approach delays the definition of terms until they appear in the study, and it makes such definitions difficult to specify in advance in research proposals. For this reason, qualitative proposals often do not include separate sections for a definition of terms. Instead, writers pose tentative, qualitative definitions threaded throughout the study.
In quantitative studies operating more within the deductive model of fixed and set research objectives, include extensive definitions early in the research proposal. Investigators may place them in separate sections and precisely define them. The researchers try to comprehensively define all relevant terms at the beginning of studies and to use accepted definitions found in the literature.
According to the passage, which of the logic is usually used in qualitative studies?
1. Inductive
2. Deductive
3. Abductive
4. Reductive

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

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According to the passage, the qualitative researcher does not define all the concepts/terms because of:
1. Difficulty in choice of method
2. Evolving methodological design
3. Continuous change in research process
4. Lack of proper hypothesis

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

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A researcher defines all relevant terms at the very beginning of the study, which of s/he has found during review of literature. The researcher has embarked upon:
1. Programmatic Research
2. Mixed-method Research
3. Quantitative Research
4. Qualitative Research

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

Special terms that need to be defined appear in all three types of studies: (a) qualitative, (b) quantitative, and (c) mixed methods. In qualitative studies, because of the inductive, evolving methodological design, inquirers may define few terms at the beginning; although they may advance tentative definitions. Instead, themes (or perspective or dimensions) may emerge through the data analysis. In the procedure section, authors define these terms as they surface during the process of research. This approach delays the definition of terms until they appear in the study, and it makes such definitions difficult to specify in advance in research proposals. For this reason, qualitative proposals often do not include separate sections for a definition of terms. Instead, writers pose tentative, qualitative definitions threaded throughout the study.
In quantitative studies operating more within the deductive model of fixed and set research objectives, include extensive definitions early in the research proposal. Investigators may place them in separate sections and precisely define them. The researchers try to comprehensively define all relevant terms at the beginning of studies and to use accepted definitions found in the literature.
A researcher working on Transgenders does not give a fixed definition of gender, rather poses a tentative definition because:
1. Transgenders do not have any gender.
2. Transgenders are abnormal people, so can’t have normal definition.
3. It is mandatory to have tentative terms in qualitative research.
4. It may change during data collection and data analysis.

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

Special terms that need to be defined appear in all three types of studies: (a) qualitative, (b) quantitative, and (c) mixed methods. In qualitative studies, because of the inductive, evolving methodological design, inquirers may define few terms at the beginning; although they may advance tentative definitions. Instead, themes (or perspective or dimensions) may emerge through the data analysis. In the procedure section, authors define these terms as they surface during the process of research. This approach delays the definition of terms until they appear in the study, and it makes such definitions difficult to specify in advance in research proposals. For this reason, qualitative proposals often do not include separate sections for a definition of terms. Instead, writers pose tentative, qualitative definitions threaded throughout the study.
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In quantitative research, as per the passage, the researcher has clarity from the beginning over what?
1. Changing themes in data analysis
2. Evolving research-design
3. Fixed research objectives
4. Pre-determined review of related literature