UGC NET Paper 1 – 24 June Evening

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

The following table shows the number of Sanitizers sold by five companies A-E in the years 2023 and 2024, by leveraging both digital and physical sales channels. Based on the data in the table, answer the questions that follow.

Company-wise sale of Sanitizers in 2023 and 2024

Company	Year 2023	Year 2024
A	4600	4800
B	7000	7600
C	6200	7800
D	5400	6200
E	5600	6400

What is the approximate percentage increase in the total number of sanitizers sold by companies A, B and D together in 2024 compared to that in 2023 by the same three companies?

1. 8.43%
2. 9.41%
3. 7.57%
4. 6.33%

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

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If the average selling price of a Sanitizer sold by company C in 2024 is ₹50 and 60% of their sales are through digital sales channels, then what is the total revenue through physical sales channels?

1. ₹1.56 lakh
2. ₹1.72 lakh
3. ₹2.08 lakh
4. ₹1.23 lakh

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

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Company	Year 2023	Year 2024
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What is the ratio of the average number of sanitizers sold by companies A and C together in 2023 to the average number of sanitizers sold by D and E together in 2024?
1. 6:7
2. 2:3
3. 1:2
4. 3:4

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

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Percentage growth in the sales of sanitizers from 2023 to 2024 is more than 13% for exactly _____ companies.
1. 2
2. 1
3. 4
4. 3

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

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If the total revenue of company B in 2024 is ₹ 2.09×10^6 and the price of one unit increased by 10% from 2023, then what was the price per unit in 2023?
1. ₹275
2. ₹225
3. ₹250
4. ₹300

6. The core objective of National Policy for Skill Development and Entrepreneurship 2015 is to empower the individuals, enabling them to realize their full potential through a process of -
1. Skill Based Education
2. Higher Education
3. Research Based Education
4. Life-long learning

7. Arrange the following operations according to phases of Teaching as per Philip W. Jackson's view:
A. Diagnosis of the learners
B. Setting goals and contents
C. Decision about strategies
D. Actions and Reactions
E. Appropriate Testing Devices
Choose the **correct** answer from the options given below:
1. A, B, C, D, E
2. C, D, E, B, A
3. B, C, A, D, E
4. B, A, C, D, E

8. The essential components of cooperative process of evaluation are :
A. Parents
B. Students
C. Peer-groups
D. School Administration
E. Teachers
Choose the **correct** answer from the options given below:
1. A, B, C and E only
2. B, C, D and E only
3. C and D only
4. A, B, D and E only

9. Which of the following action verbs are <u>not</u> from the psychomotor objectives in respect of learners?
A. Stretch
B. Begin
C. Balance
D. Change
E. Justify
Choose the **correct** answer from the options given below:
1. A and B only
2. B and C only
3. C and D only
4. D and E only

10. Effective learning requires a comprehensive approach that involves -
A. Appropriate School Building
B. Appropriate Curriculum
C. Open book Examination System
D. Engaging Pedagogy
E. Adequate students support
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. B, D and E only

11. The primary goal of a formal study in research is to _____.
1. develop hypothesis
2. test hypothesis
3. rely on common sense or personal beliefs
4. provide only personal insight

12. Mean and mean of squares of numerical values for four different populations P, Q, R and S are given in A-D below. Compute the coefficient of variation (expressed as a percentage) of these four populations and arrange them in the ascending order.
A. Population P : Mean = 20; Mean of Squares = 500
B. Population Q : Mean = 10; Mean of Squares = 181
C. Population R : Mean = 25; Mean of Squares = 1025
D. Population S : Mean = 25; Mean of Squares = 1066
Choose the **correct** answer from the options given below:
1. B, C, D, A
2. C, A, B, D
3. A, C, D, B
4. D, C, A, B

13. In APA (7th Ed) style of referencing, identify the correct order of the following key elements (A-E) used to cite a research journal article.
A. Volume Number (Issue Number)
B. Author(s). (year of publication)
C. DOI
D. Title of Article. Name of Journal
E. Page range
Choose the **correct** answer from the options given below:
1. B, A, D, C, E
2. D, A, B, C, E
3. C, D, A, E, B
4. B, D, A, E, C

14. A review of relevant literature is an integral part of the research process. In this regard, which of the following are arguments in favour of reviewing the literature?
A. It avoids duplication of the work that has been carried out in the past.
B. It helps the researcher to find out what others have learnt and reported on the problem
C. It helps the researcher to become familiar with the type of methodology followed by others.
D. It helps the researcher to understand what concepts and theories are relevant to her area of investigation.
E. It helps the researcher to find out the direct answers to unknown research questions.
Choose the **correct** answer from the options given below:
1. A, B, C and D only
2. C, D and E only
3. A, B and E only
4. A, B, C, D and E

15. Match the **LIST-I** with **LIST-II**
LIST-I – (Research Type)
A. Experimental
B. Exploratory
C. Qualitative
D. Action
LIST-II – (Description)
I. Delves into a new topic to develop initial understanding and hypothesis
II. Focuses on solving immediate local problems within a specific setting (e.g., a classroom)
III. Establishes cause-and-effect relationships by manipulating variables
IV. Aims to gain an in-depth understanding of human behaviour and the reasons guiding it.
Choose the ***correct*** answer from the options given below:
1. A-II, B-I, C-IV, D-III
2. A-III, B-I, C-IV, D-II
3. A-IV, B-I, C-III, D-II
4. A-I, B-III, C-II, D-IV

16. 'Communication is a process which increases commonality, but also requires elements of commonality for it to occur at all'. Who defined this statement?
1. Jim Owens
2. Denis McQuail
3. Marshall McLuhan
4. Raymond Williams

17. Individual reflection, contemplation and meditation are the examples of which of the following types of communication?
1. Interpersonal Communication
2. Group Communication
3. Intrapersonal Communication
4. Mass Communication

18. Arrange the following theories of communication, chronologically according to their development year, starting from earliest.
A. Agenda Setting Theory
B. The Cultivation Theory
C. Cognitive Dissonance Theory
D. Social Responsibility Theory
Choose the **correct** answer from the options given below:
1. A, B, C, D
2. A, C, D, B
3. D, C, B, A
4. A, D, C, B

19. Which among the following are known as Interpersonal Communication?
A. Direct
B. Face-to-face
C. Communication between two persons
D. Indirect
E. Communication with self
Choose the **correct** answer from the options given below:
1. A, B and E only
2. D and E only
3. A, B and C only
4. B, C and D only

20. Match the **LIST-I** with **LIST-II**
LIST-I – (Communication Type)
A. Intra-personal
B. Inter-personal
C. Group
D. Public
LIST-II – (Characteristics)
I. Tends to occur within a more formal and structured setting
II. It occurs between three or more persons
III. It is face-to-face and occurs between two persons
IV. It is a communication within ourselves.
Choose the ***correct*** answer from the options given below:
1. A-I, B-II, C-III, D-IV
2. A-III, B-IV, C-I, D-II
3. A-IV, B-III, C-II, D-I
4. A-II, B-IV, C-I, D-III

21. A boy P runs twice as fast as a boy Q and boy Q runs thrice as fast as boy R. The time taken by P to cover the same distance which is covered by R in 72 minutes is:
1. 14 minutes
2. 12 minutes
3. 15 minutes
4. 16 minutes

22. Which of the following are correct?

A. Average of the cubes of first n natural numbers = $\frac{n(n+1)^2}{4}$

B. Average of n consecutive natural numbers = $\frac{n(n+1)}{2}$

C. Average of all odd numbers from 1 to 45 = 23
D. Average of all even numbers from 1 to 45 = 23
Choose the **correct** answer from the options given below:
1. A and C only
2. B and D only
3. A, C and D only
4. A, B and C only

23. Arrange the following data sets in ascending order of their mean values:
A. −1, 0, +1, +2, +5
B. 1.8, 5.2, 3.2, 4.8, −0.5
C. 6.8, −3.8, 4.2, 2.4, 1.6
D. −3.1, −2.8, −4.1, 1.4, 0.6
Choose the **correct** answer from the options given below:
1. D, A, B, C
2. D, A, C, B
3. B, C, A, D
4. A, D, C, B

24. In a certain code language, SUMMER is written as T5NN2S and WINTER is written as X3OU2S. How SPRING shall be written in that language?
1. TQS3OH
2. TQSJOH
3. UQSJOH
4. TQS5OH

25. The number that can replace question mark (?) in the series given below is:

$\frac{1}{5}, \frac{4}{5}, \frac{9}{5}, \frac{16}{5}, 5, ?$

1. 7
2. 9
3. $\frac{36}{5}$
4. $\frac{31}{5}$

26. Which of the following statements are true?
A. Aristotelian syllogism has only five propositions.
B. Nyāya syllogism has three terms.
C. Aristotelian syllogism has four terms.
D. Aristotelian syllogism has three propositions.
Choose the **correct** answer from the options given below:
1. A, B and D only
2. A and D only
3. B and D only
4. B and C only

27. Match the **LIST-I** with **LIST-II**
LIST-I – (Name of Fallacy)
A. The Red Herring
B. Division
C. Begging the Question
D. False Cause
LIST-II – (Type of Fallacy)
I. Fallacy of Ambiguity
II. Fallacy of Presumption
III. Fallacy of Relevance
IV. Fallacy of defective induction
Choose the ***correct*** answer from the options given below:
1. A-IV, B-II, C-I, D-III
2. A-III, B-I, C-II, D-IV
3. A-I, B-III, C-IV, D-II
4. A-II, B-I, C-IV, D-III

28. Which of the following schools of Classical Indian Philosophy accept arthāpatti (postulation) as a means of knowledge?
A. Nyāya
B. Mīmāṁsā
C. Jaina
D. Advaita
Choose the **correct** answer from the options given below:
1. A, B and C only
2. B and C only
3. A and C only
4. B and D only

29. "No doctors are artists. Some accountants are doctors. Therefore, some accountants are artists." Which fallacy is involved in the above argument?
1. Exclusive premises
2. Four terms
3. Existential Fallacy
4. Drawing an affirmative conclusion from a negative premise.

30. “He walked into my office like a centipede with two legs.” Which of the following statements are true regarding the above statement?
A. It represents an analogy.
B. It represents a deduction.
C. It represents the relation of identity between two objects.
D. It represents an argument.
Choose the **correct** answer from the options given below:
1. A only
2. B only
3. A and D only
4. A and C only

31. Charles Babbage is universally recognized as the “Father of the Computer” because he _____.
1. developed the first electronic, general-purpose digital computer (the ENIAC)
2. designed the first mechanical, general-purpose programmable computer concept (the Analytical Engine)
3. invented the first mechanical adding machine (the Pascaline)
4. invented the first commercially successful microcomputer and coined the term “Personal Computer” (the Altair 8800)

32. Identify the correct order of the following devices (A-D) from highest portability to lowest portability.
A. Tablet
B. Desktop
C. Smartphone
D. Laptop
Choose the **correct** answer from the options given below:
1. A, C, B, D
2. B, A, C, D
3. B, D, A, C
4. C, A, D, B

33. Identify the correct order of (A-D) to fill in the missing terms in the paragraph given below.
_____ is often referred to as the “brain” of the computer. _____ is used for temporary data storage while the computer is running. A _____ is the main device used for long-term data storage. The physical, touchable parts of a computer system are called _____.
A. Hard Disk
B. CPU
C. Hardware
D. RAM
Choose the **correct** answer from the options given below:
1. B, A, D, C
2. C, B, A, D
3. D, C, B, A
4. B, D, A, C

34. In the context of digital security, which of the following are the primary pillars of a digital signature?
A. Redundancy
B. Authentication
C. Integrity
D. Non-repudiation
Choose the **correct** answer from the options given below:
1. A, C and D only
2. B, C and D only
3. A and B only
4. A, B, C and D

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

LIST-I – (Technology corporation)

A. Cray (now a subsidiary of HP Enterprise)

B. IBM

C. Lenovo

D. Microsoft

LIST-II – (Contribution)

I. Windows OS

II. Mainframe Computers

III. Super computers

IV. Biggest Desktop PC Market share globally (2020-2024)

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

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

36. As per Central Pollution Control Board, day time noise levels (L_{eq}) not exceeding 50 dBA are permissible around sensitive areas (hospitals, courts, educational institutions etc) up to a distance of _____.

1. 200 m
2. 500 m
3. 250 m
4. 100 m

37. Millennium Development Goal-1 was aimed at reducing by 50% the number of poor people earning less than US$_____ per day.

1. 1.25
2. 2.50
3. 1.50
4. 2.00

38. Arrange the following Greenhouse gases in the decreasing order of their global warming potential (GWP), as 100 year horizon.

A. CFC-12

B. Nitrous oxide

C. Sulphur hexafluoride

D. Carbon dioxide

E. Methane

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

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

39. Which of the following are recognized as Biodiversity Hotspots in India?

A. Indo-Burma region

B. Western Ghats

C. Himalayas

D. Thar desert

E. Vindhya range

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

40. Match the **LIST-I** with **LIST-II**
LIST-I – (National Park)
A. Jim Corbett National Park
B. Ranthambore National Park
C. Hemis National Park.
D. Kaziranga National Park
LIST-II – (State/UT)
I. Assam
II. Uttarakhand
III. Ladakh
IV. Rajasthan
Choose the ***correct*** answer from the options given below:
1. A-II, B-IV, C-III, D-I
2. A-III, B-I, C-IV, D-II
3. A-II, B-IV, C-I, D-III
4. A-III, B-IV, C-I, D-II

41. According to NEP (2020), all higher education institutions, through their Institutional Development Plans, will aim to attain the highest level of accreditation over the next:
1. 10 years
2. 15 years
3. 20 years
4. 25 years

42. According to NEP (2020) in the Higher Education System, the academic standard setting will be the responsibility of _____.
1. National Accreditation Council
2. Higher Education Grants Council
3. General Education Council
4. National Higher Education Regulatory Council

43. Select the facts that are NOT true about the Sarkar Committee :
A. It was set up in 1945
B. Its objective was to upgrade technical education in South India
C. It followed the model of the Massachusetts Institute of Technology
D. It led to the establishment of Ten IITs (Indian Institute of Technology)
Choose the **correct** answer from the options given below:
1. A & D only
2. A & B only
3. B & C only
4. B & D only

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

LIST-I – (Five year Plan)

A. First Five Year Plan

B. Second Five Year Plan

C. Fourth Five Year Plan

D. Fifth Five Year Plan

LIST-II – (Objective)

I. Provide assistance to affiliated colleges

II. Set up programs of Faculty Development

III. Set up UGC

IV. Set up Tata Institute of Fundamental Research

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

45. The number of students from a given country studying abroad, expressed as a percentage of total tertiary enrolment in that country is the definition of :

A. Overall Mobility Ratio

B. Outbound Mobility Ratio

C. Country Mobility Ratio

D. Inbound Mobility Ratio

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

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

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

Societies are complex and often difficult to unravel. In looking at how societal organization shapes politics, we have found that people everywhere have a number of identities: ethnicity, national identity, citizenship, political attitude, ideology, and political culture. Ethnicity provides a group identity, binding individuals to a group, providing solidarity, and separating them from others. National identity provides a political aspiration for that group, a desire for freedom through self-government, and citizenship establishes a relation between that group and a state. Although each of these identities can be clearly defined, they are often strongly connected and in some cases blend into each other. Such identities may bind people together, but they can be the source of conflict when different groups see each other as threats to their freedom and equality.

Whereas group identities establish differences between groups as a whole, an individual is positioned within a group by political attitudes, ideologies, and culture. These three identities shape an individual’s view of the ideal relation between freedom and equality in society and the scope and pace of political change.

As per the passage, which of the following provides a political aspiration to a group?

1. Ethnic identity
2. National identity
3. Gender identity
4. Linguistic identity

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Whereas group identities establish differences between groups as a whole, an individual is positioned within a group by political attitudes, ideologies, and culture. These three identities shape an individual's view of the ideal relation between freedom and equality in society and the scope and pace of political change.

The author states that an individual can have _____ identities at a time.
1. three
2. four
3. six
4. two

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Culture, ideology and political attitudes determine :
1. The ethnicity and solidarity of an individual within a group
2. The ideal relation between freedom and duties in a society
3. The source of conflict among groups in a society
4. The positioning of an individual within a group

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Whereas group identities establish differences between groups as a whole, an individual is positioned within a group by political attitudes, ideologies, and culture. These three identities shape an individual's view of the ideal relation between freedom and equality in society and the scope and pace of political change.

The identity of Ethnicity provides :
1. Solidarity
2. Aspiration
3. Citizenship
4. Conflict

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

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The relationship between a specific group and a state is created and developed by
1. Culture
2. Identity
3. Citizenship
4. Ideology