UGC NET Paper 1 – 29 June Evening

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

The following table shows the digitally-dependent population of six different cities (1-6), along with the ratio of Males (M) to Females (F) and ratio of Adults (A) to children (C) among them. Based on the data in the table, answer the questions that follow.

City-wise Digitally-Dependent Demographic

City	Digitally-Dependent Population	Digitally Dependent Ratio M : F	Digitally Dependent Ratio A : C
1	820800	13 : 11	5 : 3
2	739800	5 : 4	7 : 2
3	885600	5 : 7	7 : 5
4	931000	17 : 18	4 : 3
5	999000	5 : 4	5 : 4
6	849000	8 : 7	17 : 13

The digitally-dependent adult population is less than 5.166 Lakh for exactly _____ cities.

(1) 5
(2) 4
(3) 3
(4) 2

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

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The digitally-dependent female population of City-2 is approximately _____% less than its digitally-dependent male population.

(1) 20
(2) 10
(3) 30
(4) 80

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

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What is the total number (in lakh) of digitally-dependent males in City-3 and City-4 together ?
(1) 8.496
(2) 9.452
(3) 8.212
(4) 7.568

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

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What is the ratio of the number of digitally-dependent females in City-6 to the number of digitally-dependent males in City-4 ?
(1) 3 : 2
(2) 17 : 16
(3) 123 : 283
(4) 283 : 323

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

The following table shows the digitally-dependent population of six different cities (1-6), along with the ratio of Males (M) to Females (F) and ratio of Adults (A) to children (C) among them. Based on the data in the table, answer the questions that follow.

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In City-1, if M and N, respectively, represent the number of Adults and the number of children, who are digitally dependent, then what is the value of $\frac{(M-N)}{171}$?

(1) 1200
(2) 1400
(3) 1000
(4) 1600

6. Mental age and Intelligence Quotient are the indices used to indicate the developmental status of an individual on _____.
(1) A particular scale of Intelligence
(2) A particular scale of Efficiency
(3) A particular scale of Motivation
(4) A particular scale of professionalism

7. Under the Credit Based Semester System (CBSS), the requirement for awarding a degree/diploma/certificate is prescribed in terms of _____.
(1) Number of credits to be completed by the students
(2) Number of articles written by the students
(3) Number of books read by the students
(4) Number of prescribed courses selected by the students

8. Arrange these cognitive functions development stages mapped by Jean Piaget in sequence :
A. Concrete operation stage
B. Formal operations stage
C. Proportional stage
D. Sensory-motor stage
Choose the **correct** answer from the options given below :
(1) C, D, B, A
(2) A, B, C, D
(3) B, D, A, C
(4) D, C, A, B

9. Through the “SWAYAM PRABHA” platform, contents are provided by :
A. NPTEL
B. SCERT
C. IGNOU
D. NCTE
E. UGC
Choose the **correct** answer from the options given below :
(1) A, C and E Only
(2) A, B and D Only
(3) B, D and E Only
(4) B, C and D Only

10. Match **List - I** with **List - II**.
List - I – (Contexts of Learning)
A. Active Learning
B. Situated Learning
C. Collaborative Learning
D. Observational Learning
List - II – (Activities)
I. Two or more students learn together
II. Students doing things and knowing what are they doing
III. Learning by imitation
IV. Doing and Learning as per circumstances
Choose the **correct** answer from the options given below :
(1) A-I, B-III, C-II, D-IV
(2) A-II, B-IV, C-I, D-III
(3) A-I, B-II, C-III, D-IV
(4) A-IV, B-I, C-II, D-III

11. Which of the following is concerned with the question of whether the results of a study can be generalised beyond the specific research context ?
(1) Reliability
(2) External Validity
(3) Objectivity
(4) Internal Validity

12. Ranks given in a music contest by two Judges to eight players (A-H) are given as below.
Judge - 1 : {4, 5, 8, 6, 7, 3, 1, 2}
Judge - 2 : {7, 5, 4, 1, 3, 2, 6, 8}
What is the approximate value of the Spearman's Rank Correlation Coefficient.
(1) 0.632
(2) 0.423
(3) −0.524
(4) −0.712

13. Identify the sequence of research types (A-D) that correctly fills in the blanks in the following paragraph.
_____ research provides the strongest evidence about the existence of cause-and-effect relationships by manipulating variables. _____ research uses the past as a lens to understand the complexities and dynamics of the present. Research conducted to find solution for an immediate problem is _____ research.
_____ research aims to express the characteristics of a population or phenomenon without manipulating variables (e.g., "What percentage of students use the Library"?)
A. Descriptive
B. Historical
C. Experimental
D. Action
Choose the **correct** answer from the options given below :
(1) C, B, D, A
(2) A, C, B, D
(3) B, A, D, C
(4) D, B, A, C

14. Which of the following are the properties of Ratio Scale of measurement used in research ?
A. Absolute zero
B. Order
C. Classification
D. Equal Units
Choose the **correct** answer from the options given below :
(1) B, C and D Only
(2) A, C and D Only
(3) A and B Only
(4) A, B, C, D

15. Match **List - I** with **List - II**.
List - I – (Research Metric)
A. Impact factor
B. h-index
C. Citation Count
D. i10-index
List - II – (Interpretation)
I. Indicates direct count of papers from an author meeting a minimum citation threshold (Introduced and used by Google Scholar)
II. Measures individual article's or author's impact
III. Measures Journal's influence and prestige
IV. Indicates highest number of manuscripts from an author that all have at least the same number of citations
Choose the **correct** answer from the options given below :
(1) A-II, B-IV, C-III, D-I
(2) A-III, B-IV, C-II, D-I
(3) A-I, B-III, C-IV, D-II
(4) A-IV, B-I, C-II, D-III

16. Who developed 'The Cultivation Theory' ?
(1) Maxwell McCombs
(2) George Gerbner
(3) S.J. Ball Rokeach
(4) Marshall McLuhan

17. According to Wilbur Schramm, communication requires at least which of the following elements ?
A. The source
B. The effect
C. The message
D. The noise
E. The destination
Choose the **correct** answer from the options given below :
(1) B and D Only
(2) A, B and C Only
(3) A, C and E Only
(4) C, D and E Only

18. According to Aristotle with reference to Western theories and models of communication, rhetoric is made up of which of the following elements ?
A. The effect
B. The speaker
C. The speech
D. The Noise
E. The listener
Choose the **correct** answer from the options given below :
(1) A, B and C Only
(2) A and C Only
(3) B, C and E Only
(4) B, C and D Only

19. What among the following are the various characteristics of Mass Communication ?
A. Limited Sensory Channels
B. Mass Medium
C. Personal Communication
D. Gatekeeper
E. Immediate Feedback
Choose the **correct** answer from the options given below :
(1) C and E Only
(2) A, B and D Only
(3) A, B and C Only
(4) C, D and E Only

20. Match **List - I** with **List - II**.
List - I – (Events)
A. Beginning of Television in India
B. Introduction of the satellite Instructional Television Experiment (SITE)
C. Introduction of India's first soap opera 'Hum Log'
D. The Gulf war coverage by CNN
List - II – (Year)
I. 1984
II. 1991
III. 1975
IV. 1959
Choose the **correct** answer from the options given below :
(1) A-IV, B-III, C-I, D-II
(2) A-I, B-II, C-III, D-IV
(3) A-II, B-III, C-IV, D-I
(4) A-III, B-II, C-IV, D-I

21. The average of five consecutive even numbers is X. If the next five even numbers are also added in the list, then find the average of all the ten numbers.
(1) X + 7
(2) 15
(3) 16
(4) X + 5

22. The two numbers are such that the ratio between them is 5 : 8. If 4 is subtracted from each of them, the ratio between them becomes 7 : 12. Find the numbers.
(1) 25, 40
(2) 20, 40
(3) 25, 50
(4) 15, 25

23. Arrange the following speeds according to their values in decreasing order :
A. A car moving at speed of 40 km/hour
B. A boat moving at speed of 75 m per minute
C. A stream moving at speed of 4.0 m per sec
D. Relative speed of two vehicles moving in same directions with speeds of 30 km/hour and 45 km/hour, respectively
Choose the **correct** answer from the options given below :
(1) A, D, C, B
(2) D, A, C, B
(3) B, C, D, A
(4) C, B, D, A

24. In a certain language, 'GLAMOUR' is written as 'HNDQTAY'. How 'TELEPHONE' shall be written in that language ?
(1) UGOOUVVNN
(2) UGOIUNVVN
(3) UGIIVNVVN
(4) UGOOVVNNN

25. Find the number that can replace question mark (?) in the series given below :
8, 9, 13, 22, 38 ?, 99, 148
(1) 66
(2) 80
(3) 60
(4) 63

26. Which of the following fallacies involves supporting a proposition with an argument in which that proposition is a premise ?
(1) False alternative
(2) Subjectivism
(3) Begging the question
(4) Post hoc

27. Which of the following statements are true ?
A. The term 'validity' applies only to deductive arguments.
B. Deductive argument can be 'weak' or 'strong'.
C. In an inductive argument, if the premises are true, the conclusion must also be true.
D. All inductive arguments are either valid or invalid.
Choose the **correct** answer from the options given below :
(1) B and D Only
(2) C and D Only
(3) A Only
(4) A and C Only

28. "A man denies that he is a religious person, therefore, he must be a heretic". Which fallacy is committed in the above statement ?
(1) Hasty generalization
(2) Post hoc
(3) False alternative
(4) Ad hominem

29. Match **List - I** with **List - II**.

List - I – (Proposition)

A. All monkeys are primates

B. Some monkeys are primates

C. Some monkeys are not primates

D. No monkeys are primates

List - II – (Obverse)

I. Some monkeys are not non-primates

II. Some monkeys are non-primates

III. All monkeys are non-primates

IV. No monkey is non-primate

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

(1) A-II, B-III, C-I, D-IV

(2) A-IV, B-II, C-I, D-III

(3) A-III, B-I, C-II, D-IV

(4) A-IV, B-I, C-II, D-III

30. As per classical Indian School of logic which of the following arguments involve irregular middle ?

A. The hill has fire because it is knowable

B. Wherever there is fire, there is smoke

C. Sound is eternal because it is produced

D. All things are non-eternal, because they are knowable

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

(1) A and D Only

(2) B and C Only

(3) C and D Only

(4) A and C Only

31. Which of the following are features of sound editing software ?

(1) transactions, templates and fade-out

(2) transactions, transparency and voice-over

(3) transitions, transparency and templates

(4) transitions, fade-out and voice-over

32. If $(L)_M$ represents a number L in base-M number system, then identify the correct ascending order of the following numbers A-D when converted to decimal number system ?

A. $(11111.11)_2$

B. $(37.5)_8$

C. $(133.2)_4$

D. $(1F.6)_{16}$

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

(1) D, C, B, A

(2) A, B, C, D

(3) B, A, D, C

(4) C, D, A, B

33. Identify the correct order of (A-D) to fill in the missing terms in the paragraph given below.
_____ connects devices in a single building (home, office). _____ connects networks across countries or continents. _____ connects individual devices (phone, headset) within ~10 meters. _____ connects multiple local area networks across a city.
A. WAN
B. LAN
C. MAN
D. PAN
Choose the **correct** answer from the options given below :
(1) C, A, D, B
(2) B, A, D, C
(3) A, B, D, C
(4) B, D, A, C

34. Which of the following pairs of ICT acronyms and their expansions are **correctly** matched ?
A. GIF - Graphics Interchange Format
B. MIME - Multiple Internet Mail Extensions
C. ISP - Internet Service Provider
D. DVD - Digital Versatile Disc
Choose the **correct** answer from the options given below :
(1) C and D Only
(2) A and B Only
(3) A, B and C Only
(4) A, C and D Only

35. Match **List - I** with **List - II**.
List - I – (Digital Space)
A. Wiki
B. Podcast
C. Twitter (X)
D. Google Meet
List - II – (Primary Function)
I. Micro-blogging and short updates
II. Live synchronous video conferencing
III. Collaborative content editing
IV. Digital audio series for streaming
Choose the **correct** answer from the options given below :
(1) A-III, B-I, C-IV, D-II
(2) A-II, B-III, C-I, D-IV
(3) A-III, B-IV, C-I, D-II
(4) A-IV, B-II, C-I, D-III

36. A sudden uncontrolled descent of mass of earth under the force of gravity is called :
(1) Soil erosion
(2) Mining
(3) Landslide
(4) Earthquake

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

38. Arrange the following in a sequence representing food chain in a grassland ecosystem :
A. Hawks
B. Frogs
C. Grasses
D. Snakes
E. Grasshoppers
Choose the **correct** answer from the options given below :
(1) C, E, B, D, A
(2) C, B, E, D, A
(3) C, E, D, B, A
(4) A, C, E, B, D

39. Which of the following are precursor gases responsible for acid rain formation in the atmosphere ?
A. Helium
B. Sulphur dioxide
C. Chlorofluorocarbons
D. Nitrogen dioxide
Choose the **correct** answer from the options given below :
(1) A and C Only
(2) A and D Only
(3) A and B Only
(4) B and D Only

40. Match **List - I** with **List - II**.
List - I – (Texture)
A. Fine Sand
B. Silt
C. Coarse Sand
D. Clay
List - II – (Particle Size in mm)
I. < 0.002
II. 0.002 - 0.02
III. 0.02 - 0.20
IV. 0.20 - 2.00
Choose the **correct** answer from the options given below :
(1) A-II, B-III, C-I, D-IV
(2) A-I, B-IV, C-II, D-III
(3) A-I, B-III, C-IV, D-II
(4) A-III, B-II, C-IV, D-I

41. Who was the Chairperson of the education commission appointed by then Union Education minister, M.C. Chagla in 1964 ?
(1) Dr. D.S. Kothari
(2) Dr. S. Radhakrishnan
(3) Dr. Yashpal
(4) Dr. A.L. Mudaliar

42. During British Colonial period who among the following thought that the government supported education was producing among educated Indians a sense of revolt against the principles of discipline, religion and contentment ?
(1) Sir William Hunter
(2) Lord Dalhousie
(3) Lord Ripon
(4) Dr. John Wilson

43. Arrange the following in chronological order.
A. Establishment of Poona Sanskrit College.
B. Wood's Dispatch
C. Appointment of Hunter Commission
D. Formation of the Hartog Committee
Choose the **correct** answer from the options given below :
(1) D, C, B, A
(2) B, A, C, D
(3) A, B, C, D
(4) A, C, B, D

44. Which of these is NOT an objective of the Tenth Five Year Plan (2002-2007) ?
A. Raising the enrolment in higher education of the 18 - 23 year age group.
B. Providing Training and Consultancy Services.
C. Increasing the number of working days in universities to 180.
D. Appointing the four member committee to examine the problem of medium of instruction.
Choose the **correct** answer from the options given below :
(1) C and D Only
(2) A and B Only
(3) B and D Only
(4) A and C Only

45. Match **List - I** with **List - II**.
List - I – (Educational Institution)
A. Fergusson College, Poona
B. Gordon College, Rawalpindi
C. Central Hindu College, Benares
D. Ripon College, Calcutta
List - II – (Founded by)
I. The Missionaries
II. Bal Gangadhar Tilak
III. Surendra Nath Banerjea
IV. Annie Besant
Choose the **correct** answer from the options given below :
(1) A-I, B-III, C-II, D-IV
(2) A-IV, B-II, C-I, D-III
(3) A-III, B-IV, C-II, D-I
(4) A-II, B-I, C-IV, D-III

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

The school age period is one of steady growth, usually with fewer feeding problems than during toddler and preschool years. A natural increase in appetite is responsible for an increase in food consumption. The child's growing independence leads to a gradual transfer of control of food selection from the parent to the child.

Parents or caretakers should provide nutrition education for their children as being role models. Parents should encourage the child to eat appropriate portion size, eating a variety of foods and trying new foods. Negative behaviours such as using food as an emotional coping mechanism or as a reward, should be discouraged. Parents should establish in children healthy eating habits for lowering the risks for nutrition-related chronic diseases.

Between the ages of 8 to 11, some girls may be at risk for developing eating disorders. Snacks remain an important part of the diet. The meal taken on return from school is important to meet the nutritional requirement and to have interaction with parents. Children who do not eat breakfast at home are more likely to buy junkfood. Parents should give healthful breakfast at home before sending children to school.

Though media influence diet choices of children, parents should know nutritional facts and suggest to their children. Government should regulate advertisements aimed at children.

As per the given passage, children can acquire nutrition education from parents and caretakers since they are :
(1) Well wishers
(2) Role models
(3) Grown ups
(4) Authority figures

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The diet choices of children to a large extent are influenced by :
(1) Media
(2) Peers
(3) Teachers
(4) Books

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Which of the following groups can develop eating disorders ?
(1) Boys from age 12-14 years
(2) Girls from age 12-14 years
(3) Girls from age 8-11 years
(4) Boys from age 8-11 years

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Though media influence diet choices of children, parents should know nutritional facts and suggest to their children. Government should regulate advertisements aimed at children.

Which of these practices is advised in the passage ?
(1) Breakfast should not be skipped.
(2) Junk food should form part of the diet.
(3) New foods should be tried.
(4) Advertisements targeted at children must not be regulated.

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

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Though media influence diet choices of children, parents should know nutritional facts and suggest to their children. Government should regulate advertisements aimed at children.

During school age years, feeding problems are less as compared to :
(1) Pre school years only
(2) Teenage years only
(3) Toddler years only
(4) Toddler and preschool years