UGC NET Paper 1 – 24 June Morning

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

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

The following tables show percent of six types of books in two shops:

Shop-I

(Total no. of Books = 12600)

Type of Books	%
A	19%
B	21%
C	8%
D	16%
E	11%
F	25%

Shop-II

(Total no. of Books = 14500)

Type of Books	%
A	15%
B	14%
C	18%
D	12%
E	14%
F	27%

Total number of type F books is how much percent of the total number of books in both the shops?

1. 38.36%
2. 26.07%
3. 52%
4. 28%

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

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

The following tables show percent of six types of books in two shops:

Shop-I

(Total no. of Books = 12600)

Type of Books	%
A	19%
B	21%
C	8%
D	16%
E	11%
F	25%

Shop-II

(Total no. of Books = 14500)

Type of Books	%
A	15%
B	14%

Type of Books	%
C	18%
D	12%
E	14%
F	27%

In both the shops, the difference in number of books of which type is lowest?
1. A
2. B
3. D
4. Data is insufficient

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

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

The following tables show percent of six types of books in two shops:

Shop-I

(Total no. of Books = 12600)

Type of Books	%
A	19%
B	21%
C	8%
D	16%
E	11%
F	25%

Shop-II

(Total no. of Books = 14500)

Type of Books	%
A	15%
B	14%
C	18%
D	12%
E	14%
F	27%

The average of the numbers of all type of books in the Shop-I is how much percent of the total books in the Shop-I?
1. 16.67%
2. 20%
3. 18.23%
4. 12.22%

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

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

The following tables show percent of six types of books in two shops:

Shop-I

(Total no. of Books = 12600)

Type of Books	%
A	19%
B	21%
C	8%

Type of Books	%
D	16%
E	11%
F	25%

Shop-II

(Total no. of Books = 14500)

Type of Books	%
A	15%
B	14%
C	18%
D	12%
E	14%
F	27%

What is the total number of D type books in both the shops?
1. 3618
2. 3576
3. 3816
4. 3756

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

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

The following tables show percent of six types of books in two shops:

Shop-I

(Total no. of Books = 12600)

Type of Books	%
A	19%
B	21%
C	8%
D	16%
E	11%
F	25%

Shop-II

(Total no. of Books = 14500)

Type of Books	%
A	15%
B	14%
C	18%
D	12%
E	14%
F	27%

The number of Type A books in Shop-I is how much percent more than the number of Type A books in Shop-II?
1. 9.15%
2. 4%
3. 10.07%
4. 15.10%

6. A teacher shows a documentary in her class and ask students to critically review it. She is doing
1. Memory level teaching
2. Understanding level teaching
3. Reflective level teaching
4. Multi sensory instruction

7. The head of the institution/principal cannot delegate her/his:
1. Responsibilities
2. Roles
3. Accountability
4. Authorities

8. Arrange the following objectives related to cognitive domain from lowest to highest level of functioning as proposed by Bloom:
A. Knowledge
B. Analysis
C. Comprehension
D. Application
E. Synthesis
Choose the **correct** answer from the options given below:
1. A, C, D, B, E
2. A, B, C, D, E
3. E, B, A, D, C
4. E, C, A, D, B

9. Select CORRECT statements for the dictum: 'Teaching as Science'
A. End of teaching is often created in the process
B. Systematic, logically planned and executed
C. Objectives are fixed to bring about desired behavioural changes
D. It can be performed with grace and skill as an aesthetic process
E. It is impersonal
Choose the **correct** answer from the options given below:
1. A, D and E only
2. C and E only
3. B, C and E only
4. A, B and D only

10. Match the **LIST-I** with **LIST-II**
LIST-I – Stages of Personality Development
A. Oral Stage
B. Genital Stage
C. Phallic Stage
D. Latency Stage
LIST-II – Characteristics
I. Over indulgence causes fixation
II. Primacy of achievement related activities
III. Biting and babbling
IV. Fear of castration
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-I, B-IV, C-II, D-III
4. A-III, B-II, C-IV, D-I

11. In sociometry, small groups made up of individuals who choose one another are called -
1. Stars
2. Isolates
3. Cliques
4. Pairs

12. Sequentially arrange process of research in grounded theory
A. Explore relationship between categories
B. Saturate categories
C. Coding
D. General research questions
E. Relevant data is collected
Choose the **correct** answer from the options given below:
1. D, E, C, B, A
2. A, B, C, D, E
3. B, D, C, A, E
4. E, A, B, C, D

13. Arrange the following events in order of decreasing likelihood of Type-I error:
A. Keeping significance level at 0.05 for a two-tailed test
B. Keeping significance level at 0.05 for a one-tailed test
C. Keeping significance level at 0.01 for a two-tailed test
D. Keeping significance level at 0.01 for a one-tailed test
Choose the **correct** answer from the options given below:
1. A, B, D, C
2. A, D, C, B
3. B, A, D, C
4. B, D, A, C

14. Which of the following is/are example(s) of Quasi-Experimental designs?
A. Non-Equivalent (Pre-test and Post-test) Control Group design
B. Posttest only Control Group design
C. Solomon Four Group design
D. Single Group Interrupted Time-Series design
E. Control Group Interrupted Time-Series design
Choose the **correct** answer from the options given below:
1. A, B, D and E only
2. A, D and E only
3. A, B and C only
4. A, B and D only

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

LIST-I – Concept

A. Interpretivism

B. Realism

C. Objectivism

D. Constructionism

LIST-II – Feature

I. Social phenomena have an existence that is independent of social actors.

II. Social phenomena are continually being accomplished by social actors.

III. This has two types, empirical and critical.

IV. Contrasting epistemology to positivism.

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

16. It is the very general or direct meaning of a word. It is the meaning appearing next to the each word in the dictionary. Which of the following is this -

1. Connotative meaning
2. Obligatory meaning
3. Objective meaning
4. Denotative meaning

17. A type of listening which does not mean being negative about what we hear, it means judging or assessing what we hear. It involves analyzing the accuracy, legitimacy and value of messages. What type of listening is this?

1. Engaged listening
2. Disengaged listening
3. Relational listening
4. Critical listening

18. Arrange the following published work of communication in chronological order on the basis of the year published first:

A. The Bias of Communication by Harold Innis

B. Personal Influence by Paul Lazarsfeld and E. Katz

C. Understanding Media by Marshall McLuhan

D. Visual Pleasure and Narrative Cinema by Mulvey

E. Norbert Wiener’s Cybernetics

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

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

19. Which of the following are the examples of group communication?

A. Posters

B. Classroom discussion

C. Self talk

D. Committee deliberations

E. Team meeting

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

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

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

LIST-I – Book

A. Empire and Communication

B. The Gutenberg Galaxy

C. Orality and Literacy

D. Technopoly: The Surrender of Culture to Technology

LIST-II – Author

I. Harold A. Innis

II. Walter J. Ong

III. Neil Postman

IV. Marshall McLuhan

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

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

21. If $\frac{2^{x^2} \times 8^2}{8^{2x}} = \frac{1}{8}$. Then

The value of 2^{x^2-2x+1} is equal to

1. 8
2. 2
3. 16
4. 4

22. Arrange the following in the increasing order:

A. 7% of $\frac{22}{7}$

B. 3% of 2.71

C. 17% of 5.1

D. 15% of 0.5

E. 4% of $\frac{15}{2}$

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

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

23. If a and b are minimum and maximum of x satisfying $5+\frac{12}{x+\frac{1}{x}}=10$. Select the correct statements from the following:

A. 5a + 5b = 12

B. $0 < (b - a) < \frac{1}{2}$

C. $a < 0 < b$

D. $a < 1 < b$

E. $(b-a)^2+\frac{6}{25}=2$

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

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

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

If p, q satisfy $3^p+3^q=36$ and $2\times3^p+3\times3^q=99$, then match the following

LIST-I

A. p + q

B. q – p

C. p^2+q^2

D. pq

LIST-II

I. 1

II. 5

III. 6

IV. 13

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

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

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

LIST-I

A. The number of integer solutions of $2x^2-x-1=0$

B. The number of integer solutions of $x^2-5x+6=0$

C. The number of positive integer solutions of $|x-4|=|x-3|+1$

D. The number of integer solutions of $|x+1|=x$

LIST-II

I. 0

II. 1

III. 2

IV. 3

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

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

26. Which part of the proposition denotes the relation between subject and predicate?
1. quantifier
2. quality
3. minor term
4. copula

27. Arrange the following in a meaningful order, as in a book:
A. Subject - index
B. Contents
C. Title
D. Chapters
E. Introduction
Choose the **correct** answer from the options given below:
1. B, E, C, A, D
2. C, B, E, D, A
3. A, C, B, E, D
4. D, A, C, B, E

28. Which of the following are the parts of Nyaya Syllogism:
A. Pratijñā
B. Nigamana
C. Abhidha
D. Hetu
E. Nirvikalpaka
Choose the **correct** answer from the options given below:
1. A, C and D only
2. B, C and E only
3. A, B and D only
4. C, E and A only

29. Which of the following are Hetvabhasas:
A. Pakshadharmata
B. Asiddha
C. Savyabhichara
D. Satpratipaksha
E. Arthkriyakaritva
Choose the **correct** answer from the options given below:
1. A, B and C only
2. B, C and D only
3. A, D and E only
4. B, D and E only

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

LIST-I – Philosophical School

A. Carvaka

B. Buddhism

C. Nyaya

D. Advaita Vedanta

LIST-II – Pramana

I. Perception, Inference, Comparison, Verbal Testimony, Implication (Arthapatti) and non-apprehension

II. Only perception

III. Perception, Inference

IV. Perception, Inference, Verbal Testimony, Comparison

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

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

31. Cyber Grooming is aimed at -

1. economic fraud
2. hacking
3. exploitation or abuse
4. networking

32. Arrange the steps in proper sequence to create a mail merge document.

A. Attach the source file to master document

B. Insert merged fields into a mail merged document

C. Create a master document

D. Check the data source is attached

E. Run the mail merge

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

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

33. Which frequency bands are defined in RFID?

A. Low Frequency (125 KHz)

B. High Frequency (13.56 MHz)

C. Very Low Frequency (25 KHz)

D. Very High Frequency (100-200 MHz)

E. Ultra High Frequency (800-900 MHz)

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

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

34. Basic methods of multiplexing channels include:
A. Space Division Multiplexing (SDM)
B. Frequency Division Multiplexing (FDM)
C. Time Division Multiplexing (TDM)
D. Network Division Multiplexing (NDM)
E. Access Division Multiplexing (ADM)
Choose the **correct** answer from the options given below:
1. A and B only
2. D and E only
3. A, B and C only
4. C, D and E only

35. Match the **LIST-I** with **LIST-II**
LIST-I
A. IPv 4
B. QR
C. IPv 6
D. GIF
LIST-II
I. Proposed internet protocol
II. Standard format for image files
III. Current protocol used by internet
IV. Used for storing URLs of websites
Choose the ***correct*** answer from the options given below:
1. A-III, B-I, C-IV, D-II
2. A-I, B-III, C-II, D-IV
3. A-I, B-II, C-III, D-IV
4. A-III, B-IV, C-I, D-II

36. The vehicular pollutant 'Lead' can cause
1. Irritation to eyes, nose and throat
2. Minamata disease
3. Leukemia
4. Reproductive and nervous system's problems

37. Arrange the following items as per their Toxicity Rating for humans from high to low value.
A. Caffeine
B. Table sugar
C. Household cleansers
D. Nicotine
E. Mercury salts
Choose the **correct** answer from the options given below:
1. E, C, D, B, A
2. D, E, A, C, B
3. C, E, D, A, B
4. A, D, E, B, C

38. Arrange the following sources of microplastics as found in ocean from their high to low abundance:
A. Plastic pellets
B. Personal care products
C. Synthetic textiles
D. Car tyres
E. Marine coatings
Choose the **correct** answer from the options given below:
1. A, B, C, D, E
2. B, C, A, E, D
3. D, A, C, E, B
4. C, D, E, B, A

39. Regulatory functions of forest are:
A. Production of fuel wood
B. Maintenance of gaseous balance
C. Prevention from pollution
D. Moderation of climate
E. Regulation of hydrological cycle
Choose the **correct** answer from the options given below:
1. A, C, D only
2. B, D, E only
3. A, B, D only
4. C, D, E only

40. Match the **LIST-I** with **LIST-II**
LIST-I
A. Recycling
B. Incineration
C. Pyrolysis
D. Salvage
LIST-II
I. Solid wastes are heated in oxygen depleted environment
II. Reusable articles are manually separated
III. Generates fly-ash
IV. Generates employment opportunities
Choose the ***correct*** answer from the options given below:
1. A-IV, B-III, C-I, D-II
2. A-II, B-I, C-III, D-IV
3. A-I, B-II, C-IV, D-III
4. A-III, B-IV, C-II, D-I

41. The erstwhile Planning Commission is now named as:
1. NITI Aayog
2. Yojana Aayog
3. PM-Viksit Bharat Aayog
4. PM-Amritkal Aayog

42. Arrange the Eight Arts (Ashtānga) of yoga correctly:
A. Niyama
B. Prānāyāma
C. Yama
D. Dhārana
E. Samādhi
Choose the **correct** answer from the options given below:
1. A, D, B, E, C
2. A, B, C, D, E
3. C, A, B, D, E
4. E, A, C, B, D

43. While considering impact of population pressure on India's environment, choose the correct statements from the following -
A. Fast growth of human and livestock population has led to continuous degradation of soil.
B. Our agricultural production increases in arithmetical progression, but population increases in geometric progression.
C. Population, food and natural resources are not closely interrelated.
D. We need to encourage Population - Poverty - Pollution (P-triangle) to lower down the impact.
E. Population pressure has imposed severe strain on mineral resources.
Choose the **correct** answer from the options given below:
1. A, C, D only
2. A, B, E only
3. A, D, E only
4. A, C, E only

44. Match the **LIST-I** with **LIST-II**
LIST-I – Commission/Policy
A. NPE 1986
B. Acharya Rammurti Committee
C. Radhakrishnan Commission
D. Kothari Commission
LIST-II – Recommendation
I. 6 percent of GDP to be spent on Education
II. Establishment of UGC
III. Operation Blackboard
IV. Establishment of Gramshalas
Choose the ***correct*** answer from the options given below:
1. A-IV, B-III, C-II, D-I
2. A-I, B-IV, C-III, D-II
3. A-III, B-IV, C-II, D-I
4. A-II, B-I, C-IV, D-III

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

LIST-I – Scholar

A. Raghunath Siromani
B. Prabhakar
C. Vidyapati
D. Dharmakirti

LIST-II – Institution

I. Mithila
II. Vikramsila
III. Nadia
IV. Odantpuri

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

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

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

In many human cultures, agriculture is practiced as an extractive industry, in which the nutrition in the soil is sucked out by the repeated growing of crops, and soils are routinely degraded throughout the world. The conversion of land to agricultural purposes alters the entire ecosystem, and the resulting impact on soil structure and fertility, quality and quantity of both surface and groundwater, and the biodiversity of both terrestrial and aquatic communities diminishes present and future productivity. Crop rotation and the application of livestock manure help to reduce soil erosion, but in some parts of the world the land is robbed of even cow dung by the need of growing populations for something to burn as fuel for cooking and staying warm. The eroded soil has to go somewhere, of course, and its usual destinations are riverbeds and lake bottoms, where it often causes secondary problems by choking reservoirs.

Agriculture is practiced as an extractive industry and as a result:

1. Nutrition in the soil is sucked by not allowing soil to be fallow
2. Nutrition in the soil is sucked by the use of machinery
3. Nutrition in the soil is replenished by natural means
4. Nutrition in the soil is maintained by crop nutrition

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

In many human cultures, agriculture is practiced as an extractive industry, in which the nutrition in the soil is sucked out by the repeated growing of crops, and soils are routinely degraded throughout the world. The conversion of land to agricultural purposes alters the entire ecosystem, and the resulting impact on soil structure and fertility, quality and quantity of both surface and groundwater, and the biodiversity of both terrestrial and aquatic communities diminishes present and future productivity. Crop rotation and the application of livestock manure help to reduce soil erosion, but in some parts of the world the land is robbed of even cow dung by the need of growing populations for something to burn as fuel for cooking and staying warm. The eroded soil has to go somewhere, of course, and its usual destinations are riverbeds and lake bottoms, where it often causes secondary problems by choking reservoirs.

The conversion of land to agricultural purposes indirectly:

1. reduces live-stock death-rates
2. reduces prospective productivity
3. increases fertility of the soil
4. increases biodiversity

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

In many human cultures, agriculture is practiced as an extractive industry, in which the nutrition in the soil is sucked out by the repeated growing of crops, and soils are routinely degraded throughout the world. The conversion of land to agricultural purposes alters the entire ecosystem, and the resulting impact on soil structure and fertility, quality and quantity of both surface and groundwater, and the biodiversity of both terrestrial and aquatic communities diminishes present and future productivity. Crop rotation and the application of livestock manure help to reduce soil erosion, but in some parts of the world the land is robbed of even cow dung by the need of growing populations for something to burn as fuel for cooking and staying warm. The eroded soil has to go somewhere, of course, and its usual destinations are riverbeds and lake bottoms, where it often causes secondary problems by choking reservoirs.

Crop-rotation helps in reducing:
1. live-stock death-rate
2. soil-erosion
3. soil-related diseases of crops
4. cow-dung

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

In many human cultures, agriculture is practiced as an extractive industry, in which the nutrition in the soil is sucked out by the repeated growing of crops, and soils are routinely degraded throughout the world. The conversion of land to agricultural purposes alters the entire ecosystem, and the resulting impact on soil structure and fertility, quality and quantity of both surface and groundwater, and the biodiversity of both terrestrial and aquatic communities diminishes present and future productivity. Crop rotation and the application of livestock manure help to reduce soil erosion, but in some parts of the world the land is robbed of even cow dung by the need of growing populations for something to burn as fuel for cooking and staying warm. The eroded soil has to go somewhere, of course, and its usual destinations are riverbeds and lake bottoms, where it often causes secondary problems by choking reservoirs.

What is the destination of eroded soil?
1. Waterfalls
2. Riverbeds and lake bottoms
3. Forests and glaciers
4. Valleys and forests

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

In many human cultures, agriculture is practiced as an extractive industry, in which the nutrition in the soil is sucked out by the repeated growing of crops, and soils are routinely degraded throughout the world. The conversion of land to agricultural purposes alters the entire ecosystem, and the resulting impact on soil structure and fertility, quality and quantity of both surface and groundwater, and the biodiversity of both terrestrial and aquatic communities diminishes present and future productivity. Crop rotation and the application of livestock manure help to reduce soil erosion, but in some parts of the world the land is robbed of even cow dung by the need of growing populations for something to burn as fuel for cooking and staying warm. The eroded soil has to go somewhere, of course, and its usual destinations are riverbeds and lake bottoms, where it often causes secondary problems by choking reservoirs.

In some parts of the world, the land is robbed of even cow-dung for:
1. Fuel and medicinal purposes
2. Fuel and manure
3. Fuel and rituals
4. Fuel and staying warm