



## UGC NET Dec 2020 and June 2021 4<sup>th</sup> December Morning Shift

1.) Tables I and II below present analysis of people involved in a total of 10,000 road accidents which happened in Delhi during the year 2020 in accordance to both analysis of severity and fatalities. Taking it, on an average three (3) people were involved in each road accident. In accordance with the data in the tables, answer the questions:

Table —I: Analysis of Severity

Uninjured	47%
First-Aid Required	6%
Mild Bruises	9%
Hospitalization	19%
Fatalities	19%

Table — II: Analysis of Fatalities

Head Injuries	69%
Damage to Internal Organs	21%
Fire Casualty	3%
Blood-Loss	7%

What is the number of people who died of head injuries in accidents in Delhi during the year 2020?

- (A) 7787
- (B) 2297
- (C) 1311
- (D) 3933

2.) Tables I and II below present analysis of people involved in a total of 10,000 road accidents which happened in Delhi during the year 2020 in accordance to both analysis of severity and fatalities. Taking it, on an average three (3) people were involved in each road accident. In accordance with the data in the tables, answer the questions:

Table —I: Analysis of Severity

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Table — II: Analysis of Fatalities

Head Injuries	69%
Damage to Internal Organs	21%
Fire Casualty	3%
Blood-Loss	7%

For a person involved in an accident, the likelihood of escaping uninjured is P times that of dying Fire. Then, approximately P will be equal to\_\_\_\_\_.

- (A) 12
- (B) 82
- (C) 200
- (D) 15

3.) Tables I and II below present analysis of people involved in a total of 10,000 road accidents which happened in Delhi during the year 2020 in accordance to both analysis of severity and fatalities. Taking it,

First-Aid Required	6%
Mild Bruises	9%
Hospitalization	19%
Fatalities	19%

Table — II: Analysis of Fatalities

Head Injuries	69%
Damage to Internal Organs	21%
Fire Casualty	3%
Blood-Loss	7%

Approximately, what is the ratio of the number of people who escaped with mild bruises in an accident compared to the number of people who died due to blood-loss in an accident?

- (A) 1:5
- (B) 5:8:2
- (C) 6:8:1
- (D) 15:8

6.) Which of the following are the characteristics of adult learners?

- A. Physiological growth
- B. Increased focus of activities with peer group
- C. Exercise self control
- D. Ability to act rationally
- E. Learning to be independent of guidance and control

Choose the most appropriate answer from the options given below:

- (A) A and B only
- (B) B and C only
- (C) C and D only
- (D) C, D and E only

7.) Given below are two statements:

Statement I: A teacher should ensure that learning is shifted away from rote method.

Statement II: A teacher should connect knowledge to life outside the school.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

8.) In student centred approach, a teacher:

- (A) maximizes use of extrinsic rewards
- (B) encourages students to take increased responsibility
- (C) uses appropriate teaching-learning materials for effective teaching
- (D) teacher tries to relate present with the past

9.) Environmental factors which influence student learning are:

- A. Interest
- B. Family
- C. Motivation
- D. Community
- E. Socio-cultural diversities

Choose the most appropriate answer from the options given below:

- (A) A, B and C only
- (B) B, C and D only
- (C) A, B and E only
- (D) B, C and E only

10.) The objective of reflective level teaching is:

- (A) To impart knowledge to the learners.
- (B) To develop insight into the learners to solve problems.
- (C) To make students relate facts with the principles.
- (D) To encourage students to apply knowledge in similar and different situation.

11.) Concepts that are not amenable to operational definitions are known as:

- (A) Theoretical concepts
- (B) Hypothetical concepts
- (C) Conventional concepts
- (D) Inferior concepts

12.) A scientific approach in social science research should take into account

- A. Metaphysical elements
- B. Spurious relations
- C. The factor of co-variation
- D. Time order
- E. The possibility of theorisation

Choose the most appropriate answer from the options given below:

- (A) A, B, C only
- (B) B, C, D only
- (C) C, D, E only
- (D) A, B, E only

13.) Given below are two statements:

Statement I: Manipulation and control are two important possibilities in natural science research.

Statement II: Not many phenomena can be manipulated and controlled by social scientists.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

14.) Identify the correct sequence of steps in the research process as identified by David Nachmias:

- A. Research design
- B. Data collection
- C. Formulation of hypothesis
- D. Data analysis and generalisation
- E. Problem identification

Choose the most appropriate answer from the options given below:

- (A) A, B, C, D, E
- (B) B, C, D, E, A
- (C) C, D, E, A, B
- (D) E, C, A, B, D

15.) Match List I with List II:

List I

Paradigm

A. Positivist

B. Interpretive

C. Critical

D. Feminist

List II

Advocate

I. L. Thompson

II. Stuart Hall

III. Max Weber

IV. Augustus Comte

Choose the correct answer from the options given below:

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

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

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

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

16.) Source credibility in communication enables:

(A) Gate keeping

(B) Message acceptance

(C) Semantic jugglery

(D) Controlled frames of reference

17.) Which of the following indicates warmth in communication?

A. Social distance

B. Status equation

C. Natural eye contact

D. Kinetics

E. Innocent smile

Choose the correct answer from the options given below:

(A) A, B and C only

(B) B, C and D only

(C) A, D and E only

(D) C, D and E only

18.) Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason

R:

Assertion A: The linkage between language and non-verbal signs is an important part of classroom communication.

Reasons R: If the classroom setting is cross-cultural then mastery over language is adequate.

In the light of the above statements, choose the correct answer from the options given below:

(A) Both A and R are true and R is the correct explanation of A

(B) Both A and R are true but R is NOT the correct explanation of A

(C) A is true but R is false

(D) A is false but R is true

19.) The sequence of barriers to reception classroom communication is:

A. Attitudes

B. Anxieties

- C. Expectations
- D. Needs

Choose the correct answer from the options given below:

- (A) A, D, C, B
- (B) A, B, C, D
- (C) B, C, D, A
- (D) D, B, C, A

20.) Match List I with List II:

List I

Type of communication

- A. Phatic
- B. Grapevine
- C. Tactile
- D. Feedback

List II

Example

- I. Touch
- II. Decoder becomes encoder
- III. Informal, sometimes rumour mongering
- IV. Small talk

Choose the correct answer from the options given below:

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

21.) The rates of simple interests in two banks A and B are in the ratio 5: 4. A person wants to deposit his total savings in two banks in such a way that he receives equal half yearly interest from both. He should deposit the savings in banks A and B in the ratio:

- (A) 5:2
- (B) 2:5
- (C) 4:5
- (D) 5:4

22.) Three glasses are filled with a mixture of milk and water in the ratio 4: 3, 5: 4 and 7: 6 respectively. If the contents of three glasses are poured into a single vessel. then the ratio of water to milk in the new vessel is :

- (A)  $\left(\frac{4}{7} + \frac{5}{9} + \frac{7}{13}\right) : \left(\frac{3}{7} + \frac{4}{9} + \frac{6}{13}\right)$
- (B)  $\left(\frac{3}{4} + \frac{5}{4} + \frac{7}{6}\right) : \left(\frac{3}{4} + \frac{4}{5} + \frac{6}{7}\right)$
- (C)  $(1 + 1 + 1) : \left(\frac{4}{3} + \frac{5}{4} + \frac{7}{6}\right)$
- (D)  $\left(\frac{3}{7} + \frac{4}{9} + \frac{6}{13}\right) : \left(\frac{4}{7} + \frac{5}{9} + \frac{7}{13}\right)$

23.) A certain culture of bacteria quadruples every hour. If a container with these bacteria was half full at 10 pm, at what time was it one-eighth full?

- (A) 9 a.m.
- (B) 4 a.m.
- (C) 6 p.m.

(D) 9 p.m.

24.) Given below are two statements:

Statement I: The halves of diagonals and a side of a rhombus form a right angled triangle with side as hypotenuse.

Statement II: Area of a parallelogram is given by Base x Height.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

25.) Consider the following statements:

A. A succession of numbers formed and arranged in a definite order according to certain definite rule, is called a progression.

B. Two numbers are said to be prime, if their H.C.F. is 2.

C. A number is divisible by 9, if the sum of its digits is divisible by 9.

Choose the correct statements from above:

- (A) A and B only
- (B) A and C only
- (C) B and C only
- (D) A, B and C

26.) Given below are two statements:

Statement I: If we infer "Socrates is a man, because he is mortal" we commit the fallacy named as sadharana by Classical Indian Logicians.

Statement II: An inference is fallacious if the middle term is found to be common to both the major term and its opposite. Such fallacy is named sadharana.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

27.) The space program deserves increased expenditure in the years ahead. Not only does the national defense depend upon it, but the program will more than pay for itself in terms of technological snipoffs. Further more, at current funding levels the program cannot fulfill its anticipated potential". What is the conclusion in the above argument?

- (A) The national defense depends upon the space program.
- (B) The space program deserves increased spending in the years ahead.
- (C) The space program will more than pay for itself in terms of technological snipoffs.
- (D) At existing funding levels the space program cannot fulfil its anticipated potential.

28.) All mortals are men.

Socrates is mortal

Therefore Socrates is a man.

Which of the following statements are true of the above argument?

- A. Above arguments is sound.
- B. Above argument is valid.
- C. Above argument is fallacious.
- D. Above argument commits the fallacy of undistributed middle.

Choose the correct answer from the options given below:

- (A) Only A and B are correct
- (B) Only A is correct
- (C) Only C is correct
- (D) Only C and D are correct

29.) Given below are two statements:

Statement I: "Every thinkable is nameable, because it is thinkable". This is a fallacious argument because there can be no inference where the minor and the middle terms are the same.

Statement II: The fallacy committed in this statement is called the extra-ordinary (asadharana) because the middle term does not belong to anything other than the present minor term.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

30.) Given below are two statements:

Statement I: Naiyāyikas define upadhi (conditionality) as the necessary relation of something only with major term but not with middle term.

Statement II: According to Naiyāyikas wherever the major term is only conditionally true, it is invalid and the conclusion drawn from it cannot be valid.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

31.) Which of the following is a special type of Computer Virus that fills a computer system with self-replicating information, clogging the system so that its operations are slowed or stopped?

- (A) Firewall
- (B) Keystroke
- (C) Worm
- (D) Zombie

32.) Identify the correct order of the following computer storage capacities ranked from smallest to largest capacity.

- A 1500 M Bytes
- B 5 K Bytes
- C 1 G Bytes
- D 2 T Bytes

Choose the correct answer from the options given below:

- (A) B, C, A, D
- (B) B, C, D, A
- (C) D, C, B, A
- (D) B, A, C, D

33.) Given below are two statements:

Statement I: Software programs permanently stored in ROM are called 'Malware'.

Statement II: The use of the Internet, Cell phones or other devices to send or post content intended to hurt or embarrass another person is called Cyber bullying.



In the light of the above statements, choose the correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is true but Statement II is false
- (D) Statement I is false but Statement II is true

34.) With respect to Computers, which of the following are permanent storage devices?

- A. Pen Drive
- B. Hard Disk
- C. Compact Disk
- D. RAM

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) B, C and D only
- (C) A, C and D only
- (D) A, B and D only

35.) Match List I with List II

List I

(Computer Terms)

- A. Mouse
- B. Modem
- C. Pen-Drive
- D. Opera

List II

(Description)

- I. Input Device
- II. External Memory
- III. Web Browser
- IV. Network Device

Choose the correct answer from the options given below:

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

36.) By the year 2020, one of the targets in sustainable Development Goals is to reduce global deaths and injuries from road traffic accidents by

- (A) 38%
- (B) 40%
- (C) 50%
- (D) 25%

37.) Which of the following is perceived relatively a low risk problem in the context of human welfare?

- (A) Radionuclides
- (B) Airborne toxins
- (C) Stratospheric ozone depletion
- (D) Habitat alteration and destruction

38.) According to WHO standards for drinking water quality, the concentration of Arsenic should not exceed:

- (A)  $10 \mu\text{gL}^{-1}$
- (B)  $6.0 \mu\text{gL}^{-1}$
- (C)  $5.0 \mu\text{gL}^{-1}$
- (D)  $1.0 \mu\text{gL}^{-1}$

39.) During a combustion process, the following air pollutants are produced:

- A. Nitric oxide
- B. Nitrogen dioxide
- C. Nitrous oxide
- D. Carbon monoxide
- E. Ozone

Choose the correct answer from the options given below:

- (A) A and C only
- (B) A, C and D only
- (C) B, D and E only
- (D) A, B and D only

40.) The 'Vision statement' of International Solar Alliance is

- (A) Let us together make the world a better place
- (B) Let us together make the sun brighter
- (C) Let us make the world more energy efficient
- (D) Let us have a carbon-neutral world

41.) Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R

:

Assertion A: National Education Policy 2020 has recommended for setting up Multidisciplinary Education and Research University (MERU).

Reasons R: MERU will aim at attaining highest global standards in quality education.

In the light of the above statements, choose the correct answer from the options given below:

- (A) Both A and R are true and R is the correct explanation of A
- (B) Both A and R are true and R is NOT the correct explanation of A
- (C) A is true but R is false
- (D) A is false but R is true

42.) Objectives of Open Distance Learning (ODL) and online programmes are:

- A. To improve access to higher education
- B. To increase gross enrolment ratio (GER)
- C. To provide opportunities for lifelong learning
- D. To make education innovative
- E. To improve the quality of education

Choose the correct answer from the options given below:

- (A) A, B, D only
- (B) B, C, E only
- (C) A, B, C only
- (D) A, B, C, D only

43.) Students from socio-economically disadvantaged background require following supports in order to make successful transition to higher education:

- A Financial support only
- B Financial and academic support only
- C Affirmative action policy

- D Technical support only
- E Career counselling only

Choose the correct answer from the options given below:

- (A) A and B only
- (B) A, B and D only
- (C) A, B, C, D only
- (D) A, B, C, E only

44.) Given below are two statements:

Statement I: IITs are different from other normal engineering colleges in our country.

Statement II: In IITs science of engineering is taught whereas in normal engineering colleges mostly technical aspect of engineering is taught.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (A) Both Statement I and Statement II are correct
- (B) Both Statement I and Statement II are incorrect
- (C) Statement I is correct but Statement II is incorrect
- (D) Statement I is incorrect but Statement II is correct

45.) Quality of higher education can be improved by:

- A. Disciplining faculty members and students.
- B. Improving facilities for faculty members and students.
- C. Providing exposure to the faculty members and students to good foreign universities.
- D. Promoting privatization of higher education institutions.
- E. Strengthening secondary education system.

Choose the correct answer from the options given below:

- (A) A, B, D only
- (B) B, D, E only
- (C) B, C, D only
- (D) B, C, E only

46.) Read the passage and answer questions.

While the entire world has been focused on the economic fallout of the corona-virus Pandemic, two other much older viruses have been lurking in the shadows for quite some time. Since these two viruses are non-biological in nature, they are vaccine-proof. One of them is marketplace-based, the other, mind-based. While the origin of the coronavirus may or may not be traced back to Wuhan in China, the two older viruses originated in the US. Silicon Valley has had a huge role to play in propagating and prolonging these two viruses.

The three seemingly disparate viruses are actually linked in major ways when viewed from the twin perspectives of cultural anthropology and economics.

The marketplace-based virus has to do with 'conspicuous consumption', a term coined by American economist and sociologist Thorstein Veblen in his 1899 book— The Theory of the Leisure Class. Conspicuous consumption is a catch-all phrase that best describes the practice of acquiring goods of quality and quantity far in excess of one's needs — an acquisition process facilitated these days by e-commerce giants such as Amazon. While conspicuous consumption is typically associated with affluent countries in the West, it is catching on fast in India, much to the delight of delusional politicians and IT companies. I find this quite curious since India does not meet the definition of an affluent society, viz., a production-oriented society where the basic needs — food, clothing and shelter — of its citizenry have been met.

The mind-based virus is centred on 'meme', a term coined by Richard Dawkins, British evolutionary biologist and author of the 1976 best seller, The Selfish Gene. Memes are units of information that propagate in the meme-pool (akin to the gene pool) by leaping from brain to brain.

The market-place pandemic is

- A. Biological
- B. Non-biological
- C. Vaccine proof
- D. Mind-based

Choose the correct option:

- (A) A and B only
- (B) B and C only
- (C) C and D only
- (D) A and D only

47.) Read the passage and answer questions.

While the entire world has been focused on the economic fallout of the corona-virus Pandemic, two other much older viruses have been lurking in the shadows for quite some time. Since these two viruses are non-biological in nature, they are vaccine-proof. One of them is marketplace-based, the other, mind-based. While the origin of the coronavirus may or may not be traced back to Wuhan in China, the two older viruses originated in the US. Silicon Valley has had a huge role to play in propagating and prolonging these two viruses.

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The two non-biological viruses originated in:

- (A) China
- (B) Great Britain
- (C) The US
- (D) India

48.) Read the passage and answer questions.

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The term 'Conspicuous Consumption' is related to the process of:

- (A) Meeting one's basic needs
- (B) Individual delusion
- (C) Technology adoption
- (D) Indiscriminate acquisition of goods

49.) Read the passage and answer questions.

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According to the author, India is a/an:

- (A) Producer society
- (B) Affluent society
- (C) Trader society
- (D) Developing society

50.) Read the passage and answer questions.

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Mememes represent:

- (A) Gene pool
- (B) E-commerce
- (C) Affluence
- (D) Information propagation