UGC NET Dec 2020 and June 2021 4th December Evening Shift

1.) The following table presents the number of Registered and Pending criminal cases (in Thousands) relating to three (3) crimes namely Larceny, Arson and Carjacking in each year from 2015 to 2020. Based on the data in the table answer the question.

Year—wise Criminal Cases (in Thousands)

Crime	Larceny		Arson		Carjacking	
Year↓	Registered	Pending	Registered	Pending	Registered	Pending
2015	21	15	55	29	15	12
2016	42	32	30	26	21	11
2017	35	20	60	39	50	15
2018	25	14	45	20	20	10
2019	65	44	60	49	40	22
2020	80	55	35	18	75	55

What is the number of solved Arson cases in the year 2015 as an approximate percentage of all the pending Arson cases from the year 2015 to 2020?

(A) 20%

(B) 25%

(C) 15%

(D) 30%

2.) The following table presents the number of Registered and Pending criminal cases (in Thousands) relating to three (3) crimes namely Larceny, Arson and Carjacking in each year from 2015 to 2020. Based on the data in the table answer the question.

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Which of the given years marked the maximum percentage increase in registered Carjacking cases over its previous year?

(A) 2016

(B) 2017

(C) 2018

(D) 2019

3.) The following table presents the number of Registered and Pending criminal cases (in Thousands) relating to three (3) crimes namely Larceny, Arson and Carjacking in each year from 2015 to 2020. Based on the data in the table answer the question.

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For which year was the 'Success rate' the lowest? (Success Rate means total criminal cases against total registered cases in a year):

- (A) 2016
- (B) 2017
- (C) 2018
- (D) 2019
- 4.) The following table presents the number of Registered and Pending criminal cases (in Thousands) relating to three (3) crimes namely Larceny, Arson and Carjacking in each year from 2015 to 2020. Based on the data in the table answer the question.

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Approximately, what is the percentage of solved Carjacking cases in the year 2019 to the total number of registered cases in that year?

- (A) 11%
- (B) 18%
- (C) 15%
- (D) 20%
- 5.) The following table presents the number of Registered and Pending criminal cases (in Thousands) relating to three (3) crimes namely Larceny, Arson and Carjacking in each year from 2015 to 2020. Based on the data in the table answer the question.

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What is the ratio of the number of solved Larceny cases in 2017 compared to the number of solved Carjacking cases in 2015?

- (A) 1:5
- (B) 2:3
- (C) 3:2
- (D) 5:1

- 6.) What is the name of the approach which refers to teacher statements that encourage students to elaborate on an answer either their own or another students?
- (A) Probing
- (B) Structuring
- (C) Task orientation
- (D) Remediation
- 7.) Which of these decision traps pertain to processing skills?
- A. Poor group process
- B. Ignoring negative feed back
- C. Not keeping records
- D. Taking shortcuts
- E. Poor frame control

Choose the correct answer from the options given below:

- (A) A, B, C only
- (B) A, D, E only
- (C) B, C, D only
- (D) C, D, E only
- 8.) Arrange the steps for building a portfolio for your teaching area from beginning to last step order
- A. Decide who will plan the portfolio
- B. Decide on the purpose for a portfolio
- C. Decide which products and how many samples to put in the portfolio
- D. Identify cognitive skills and dispositions
- E. Build the portfolio rubrics

Choose the correct answer from the options given below:

- (A) A, C, B, D, E
- (B) B, D, A, C, E
- (C) D, C, B, A, E
- (D) E, B, A, C, D
- 9.) Given below are two statements: One is labelled as Assertion A and the other is labelled Reason R:

Assertion A: A learner centered approach provides best experience for learners.

Reasons R: Learner centered approach does not acknowledge the needs of the learner as central to learning experience.

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
- 10.) Match List I with List II

List I

Name of creativity block

- A. Perceptual Block
- B. Emotional Block
- C. Intellectual Block
- D. Cultural Block

List II

Action

- I. Lack of, or incorrect, information
- II. Difficulty in isolating the problem
- III. Playfulness is for children only
- IV. Lack of access to areas of imagination

Choose the correct answer from the options given below:

- (A) A-II, B-IV, C-I, D-III
- (B) A-IV, B-I, C-III, D-II
- (C) A-I, B-III, C-II, D-IV
- (D) A-III, B-II, C-IV, D-I
- 11.) The positivist researchers consider reality as
- (A) Subjective
- (B) Objective
- (C) Neutral
- (D) Insignificant
- 12.) The elements of a cross-sectional design are:
- A. Absence of quantitative data
- B. Domination of qualitative data
- C. A sample of cases with inter-related variations
- D. Data are collected at a single point time
- E. Examination of relationships between variables

Choose the correct answer from the options given below:

- (A) A, B, C only
- (B) B, C, D only
- (C) C, D, E only
- (D) A, C, E only
- 13.) The advantages of structured interview are:
- A. Provides limited choices that reduce the possibility of generalization
- B. Standardises questions
- C. Accuracy is possible to a large extent
- D. Data processing is easy
- E. Misinterpretation is possible due to strict standardisation

Choose the correct answer from the options given below:

- (A) A, B, C only
- (B) B, C, D only
- (C) C, D, E only
- (D) A, D, E only
- 14.) Given below are two statements:

Statement I: The opinion that history must emerge from archives is questioned repeatedly over a period of time.

Statement II: Content fidelity compels history researchers to seek several sources of information.

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 Π is false
- (D) Statement I is false but Statement II is true

15.)

Match List I with List II

List I

Research Components

A. Concept

- B. Marker variable
- C. Operational definition
- D. Pre-test

List II

Characteristic Feature

- I. A clear statement of what to be observed
- II. A method to establish a point of prior equivalence
- III. An abstract idea
- IV. An important empirical counterpart of an idea

Choose the correct answer from the options given below:

- (A) A-I, B-II, C-III, D-IV
- (B) A-II, B-III, C-IV, D-I
- (C) A-III, B-IV, C-I, D-II
- (D) A-IV, B-I, C-II, D-III
- 16.) One of the contributive factors for a better ecosphere in a cross-cultural classroom situation is
- (A) Non-confirmatory stare
- (B) Heavily loaded accent
- (C) Avoidance of personal contact
- (D) Gatekeeping of stereotypes
- 17.) In constructive contexts of effective listening behavior, classroom communication is characterized by
- A. Identification of the common ground
- B. Finding out the areas of mutual agreement
- C. Seeing the real issues
- D. Permitting different interpretations
- E. Varied perspectives of the common message

Choose the correct answer from the options given below:

- (A) A, B and C only
- (B) B, C and D only
- (C) C, D and E only
- (D) A, C and E only
- 18.) Given below are two statements:

Statement I: Differences in orientation, habits and interests will affect the classroom communication process

Statement II: Age differences do not matter when we consider semantic noise

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

19.) The sequence of individual differences in communication is A. Needs B. Values C. Beliefs D. Opinion Choose the correct answer from the options given below: (A) A, D, B, C (B) B, D, C, A (C) C, D, B, A (D) A, B, C, D
20.) Match List I with List II List I Barriers in Communication A. Channel noise B. Semantic noise C. Psychological noise D. Entropy List II Description I State of disorder II Difference in perception III Language disorder IV Interference with the medium Choose the correct answer from the options given below: (A) A-II, B-III, C-I, D-IV (B) A-IV, B-III, C-II, D-I (C) A-III, B-IV, C-I, D-III (D) A-I, B-II, C-IV, D-III
21.) Consider following statements: A. If a pipe can fill a tank in x hours, the part filled in 1 hour is $\frac{1}{1+X}$
B. If a pipe can empty a full tank in y hours, the part emptied in 1 hour is $\frac{1}{y}$ C. If a pipe can fill a tank in x hours and another pipe can empty the full tank in y hours (where $y > x$), then an opening both the pipes, the net part filled in 1 hour $= \frac{1}{x} - \frac{1}{y}$ Choose the correct statements from above: (A) A and C only (B) A and B only (C) B and C only (D) A, B and C
22.) A mixture contains water and milk in the ratio 1: 5. On adding 5 litres of water, the ratio of milk to water becomes 5: 2. The quantity of milk in the original mixture is: (A) 16 litres (B) 25 litres (C) 99.5 litres (D) 32.5 litres
23.) If a sum of money at simple interest doubles in 6 years, it will become 4 times in

- (A) 14 years
- (B) 16 years
- (C) 18 years
- (D) 20 years
- 24.) The H.C.F. of two numbers is 12 and their difference is 12. The numbers are
- (A) 96, 84
- (B) 106, 94
- (C) 82, 70
- (D) 66, 54
- 25.) Given below are two statements:

Statement I: The multiplication or division of each term of a ratio by a same non-zero number affects the ratio.

Statement II: We say that α is inversely proportional to b if $\alpha = \frac{k}{h}$ for some constant k.

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
- 26.) "No one has ever been able to prove the existence of extra sensory perception. We must therefore conclude that extra-sensory perception is a myth". Which one of the following fallacy is committed in the above statement?
- (A) Slippery slope
- (B) Appeal to Ignorance
- (C) Hasty generalization
- (D) Red herring
- 27.) Which of the following types of inference is used when one infers rainfall on the hills from floods?
- (A) Parvavata
- (B) Śesavata
- (C) Sāmānyatodrsta
- (D) Sāmānyalaksanapratyāsatti
- 28.) Given below are two statements:

Statement I: The formal fallacies of Aristotle are based on the violations of the formal structure of the whole syllogism.

Statement II: Fallacies given by the Naiyāyikas rest on the violations of the formal conditions of the valid middle term or reason. 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
- 29.) Which among the following type of relations are considered by Nyfiva system as necessary relation between middle and major terms?
- A. Species species relation
- B. The causal relation

- C. Member class relation
- D. Species genus relation

Choose the correct answer from the options given below:

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

30.) This barrel contains 100 apples

Three apples selected at random were found to be ripe. Therefore probably all 100 apples are ripe.

Which type of argument is exemplified in the above set of statements?

- (A) Inductive
- (B) Deductive
- (C) Hypothetical Syllogism
- (D) Modus Ponens
- 31.) With respect to computers, TFT is related to:
- (A) Memory
- (B) Monitor
- (C) Input Device
- (D) Serial Port
- 32.) Identify the correct order of following different types of computer components ranked from

slowest to fastest in terms of access time

- A. RAM
- B. Optical drive
- C. CPU Cache
- D. SSD

Choose the correct answer from the options given below:

- (A) C, A, D, B
- (B) B, A, D, C
- (C) D, C, B, A
- (D) B, D, A, C
- 33.) Given below are two statements regarding storage devices on a computer:

Statement I: Access time is typically stated in milliseconds for secondary storage devices and in nanoseconds for primary storage devices.

Statement II: Average access time can usually be improved by defragmenting the data contents of a hard disk.

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.) Which of the following is/are main memory of a computer?
- A. RAM
- B. Hard disk
- C. CDROM

D. Pen Drive Choose the correct answer from the options given below: (1) A and B only (2) B only (3) A only (4) A, C and D only
35.) Match List I with List II List I Digital Initiative A. e-Acharya B. e-Kalpa C. IMPRINT D. BHIM List II Objective I. Digital-learning environment for design II. Unified Payment Interface III. Integrated e-content portal for projects under NMEICT IV. Road map to pursue engineering challenges Choose the correct answer from the options given below: (A) A-III, B-IV, C-I, D-II (B) A-II, B-I, C-IV, D-III (C) A-I, B-III, C-IV, D-III (D) A-III, B-I, C-IV, D-III
36.) Under Sustainable Development Goal 3 — 'Good Health and Wellbeing'. by 2030, the premature mortality from non-communicable diseases is to be reduced by (A) 75% (B) 60% (C) 50% (D) 40%
37.) Major factors for loss of biodiversity are A. Changes in land and sea use B. Acid rain C. Direct exploitation of organisms D. Climate change E. Ozone depletion Choose the correct answer from the options given below: (A) C, D, E only (B) A, C, D only (C) B, C, D only (D) A, B, C, D only
38.) Identify the Natural Hazards of geophysical origin among the following: A. Wildfires B. Floods C. Subsidence D. Tsunami E. Heat wave