

UGC NET June 2020 17th October Evening shift

Consider the following table that shows the percentage (%) distribution of runs scored by an Indian batsman against different countries in one-day internationals (ODI) and T20 world cup matches. Total runs scored by the Indian batsman in ODI and T20 are 2800 and 2000 respectively. Based on the data in the table, answer the questions 1-5:

Country wise distribution runs:

Country	Percent (%) of runs scored	
	ODI	T20
Pakistan	10.50%	09.50%
England	11.00%	09.00%
Australia	17.50%	11.50%
South Africa	12.50%	16.50%
Sri Lanka	09.00%	12.50%
New Zealand	12.00%	10.00%
West Indies	14.00%	18.00%
others	13.50%	13.00%

1.) If the batsman played 14 innings against Sri Lanka in ODI and remained not out in 5 innings, then the average runs scored by the batsman against Sri Lanka are:

- (A) 28
- (B) 24
- (C) 26
- (D) 22

2.) Total runs scored by the batsman against New Zealand in T20 matches are approximately what percent (%) of the total runs scored against Pakistan in ODI matches?

- (A) 64%
- (B) 66%
- (C) 62%
- (D) 68%

3.) In the case of which of the following countries, the difference between the runs scored by the batsman in ODI and T20 is the second lowest?

- (A) Sri Lanka
- (B) Pakistan
- (C) South Africa
- (D) West Indies

4.) The runs scored by the batsman against West Indies in T20 are approximately what percent (%) of the runs scored against Australia in ODI?

- (A) 71%
- (B) 75%
- (C) 73%
- (D) 69%

5.) If a batsman had scored 280 runs against Pakistan in T20 matches, then what would have been the percentage of runs scored by the batsman in the T20 matches against all other countries (Assuming that the total runs scored by the batsman in T20 remains the same (that is 2000))?

- (A) 88%

- (B) 84%
- (C) 86%
- (D) 90%

6.) For optimising learning outcomes which of the following factors have been identified as most effective in terms of research evidences in the global context?

- (A) Home related factors
- (B) School related factors
- (C) Teacher related factors
- (D) Supplementary technological devices related factors

7.) What is the hallmark of reflective teaching?

- (A) Clear, organised and well-structured content
- (B) Personalised interactive and high level of cognitive interchange
- (C) Systematic, planned and quick question-answer session
- (D) Logical, coherent and example based presentations

8.) Identify the correct sequence of cognitive behaviours in the taxonomy of educational objectives:

- I. Knowledge
- II. Application
- III. Understanding
- IV. Analysis
- V. Synthesis

Choose the correct answer from the options given below:

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

9.) In which scale of measurement, classification, order and equality of units are ensured?

- (A) Ordinal
- (B) Nominal
- (C) Interval
- (D) Ratio

10.) Given below are two statements:

Statement I: Computer based testing ensure reliability and validity in the process of evaluation centered on effective and conative domains of behaviour.

Statement II: Support materials in the form of programmed instructional models have a tremendous potential to maximize learning.

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

11.) Which argument may be advanced in support of action research in education?

- (A) The researcher breaks fresh ground in the field of enquiry
- (B) The knowledge is applied to extend further generalisations

- (C) Some new principles are formulated for explaining the events
- (D) The educational situation as well as the practitioner of education undergoes a change for the better.

12.) The critical difference between experimental and ex-post facto research lies in terms of:

- (A) Selection of sample
- (B) Casual collection between two variables
- (C) Use of research tools
- (D) Control and manipulation of independent variable

13.) In establishing a research problem for a Ph.D level course, in the initial stage which of the following stages are crucial?

- I. Hypothesis testing
- II. Locating a problem area from a field through survey of related literature
- III. Defining the population of research and its characteristics
- IV. Selecting a pointed issue called a problem by a process of logical analysis
- V. Defining and delimiting the problem

Choose the correct answer from the options given below:

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

14.) From the following, identify those which are called non-probability sampling procedures:

- I. Systematic sampling
- II. Quota sampling
- III. Stratified sampling
- IV. Purposive sampling
- V. Snowball sampling

Choose the correct answer from the options given below:

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

15.) Given below are two statements:

Statement I: The goal of inquiry in fundamental research is directed at bringing an increment in the fund of knowledge

Statement II: Action research is a research by the practitioner, for the practitioner and of the practitioner.

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

16.) Announcement of arrival and departure of trains at railway station is:

- (A) Spatial communication
- (B) Organisational communication

- (C) Public communication
- (D) Sectional communication

17.) Factors that contribute for effective classroom communication are:

- I. Information overload
- II. Use of familiar words
- III. Balanced flow of words
- IV. Circular flow of messages
- V. Mechanism to assess the feedback

Choose the correct answer from the options given below:

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

18.) Given below are two statements:

Statement I: The content and style of communication are the predictor variables of effective teaching

Statement II: A good and communicative teacher evokes relatively less questions from the students.

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

19.) Find out the correct sequence of the following transmissions:

- I. Narrowcasting
- II. Telegraph
- III. Broadcasting
- IV. Telephone
- V. Podcasting

Choose the correct answer from the options given below:

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

20.) Match List I with List II

List I (Examples of communication)

- I. A company boss telephones his/her secretary for some help from outside
- II. A company issues a circular of guidelines for its employees
- III. Employees discuss certain issues among themselves
- IV. A company sends a formal letters to its retailers and wholesalers

List II (Type of communication)

- 1. Marketing communication
- 2. Horizontal communication
- 3. Vertical communication
- 4. Informal communication

Choose the correct answer from the options given below:

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

21.) Given below are two statements:

Statement I: If an article is sold at a gain of 19%, then selling price is 109% of cost price

Statement II: If an article is sold at a loss of 9%, then selling price is 109% of cost price

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

22.) Find odd one out in from the following:

5, 7, 12, 17, 19, 23

- (A) 7
- (B) 12
- (C) 17
- (D) 19

23.) At what angle the hands of a clock are inclined at 15 minutes past 5?

- (A) $58\frac{1}{2}^\circ$
- (B) $67\frac{1}{2}^\circ$
- (C) $68\frac{1}{2}^\circ$
- (D) $72\frac{1}{2}^\circ$

24.) Given below are two statements:

Statement I: A number is divisible by 3, if the sum of its digits is divisible by 3.

Statement II: A number is divisible by 9, if the sum of its digits is not divisible by 9.

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

25.) The difference between the squares of two consecutive numbers is 35. Then the smaller number is:

- (A) 14
- (B) 15
- (C) 16
- (D) 17

26.) Identify the characteristics of the 'middle term' from the following:

- I. It must be present in the minor term
- II. It must be present in all positive instances in which the major term is present
- III. It is logical statement which is to be proved
- IV. It must be absent in all negative instances in which major term is absent
- V. It is drawn from the preceding propositions

Choose the correct answer from the options given below:

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

27.) 'Upanaya' in Indian 'Nyaya Syllogism' corresponds to which of the following in Aristotelian Syllogism?

- (A) Major premise
- (B) Minor premise
- (C) Conclusion
- (D) Both major and minor premises

28.) 'Fire is not warm because it is produced such as water', is an example of which type of fallacy?

- (A) *Satpratipraksha*
- (B) *Badhit-vishaya*
- (C) *Virudha*
- (D) *Swaroopasidha*

29.) Given below are two statements:

Statement I: *Keval vyatireki* form of inference is that when the middle term is the differentium of the minor term.

Statement II: *Kevalanvayi* form of inference is that when the middle term is both positively and negatively related to the major term

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

30.) The knowledge of the relation between name and an object denoted by that name is called:

- (A) Verbal testimony
- (B) Implication
- (C) Inference
- (D) Comparison

31.) Ankur receives an email informing him that his credit card is going to be cancelled. The email advises him to click on the provided link and sign into his online banking account to prevent this from happening, which he does. A week later, he notices that ₹ 10,000 has been withdrawn from his bank account. What has Ankur fallen victim to?

- (A) A phishing scam
- (B) A Trojan horse

- (C) Online blackmail
- (D) A virus

32.) Given below are two statements:

Statement I: A company-wide network, closed to public access, which uses internet-type technology, is called World Wide Web

Statement II: MODEM is a device that enables a computer to communicate over telephone lines.

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

33.) Given below are two statements:

Statement I: The value of hexadecimal number 21 is 33 in decimal number system

Statement II: The value of binary number 1110 is 14 in decimal number system

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

34.) Match List I with List II

List I (Digital Initiative)

I. NAD

II. SWAYAM PRABHA

III. NDL

IV. SWAYAM

List II (Objective)

1. Utilization of satellite communication technologies for transmission of education e-contents through National channels
2. All-digital library that stores information (metadata) about different types of digital contents
3. 24*7 online store house of all academic viz. Certificates. Degrees etc.
4. Offers various online courses for school education and higher education.

Choose the correct answer from the options given below:

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

35.) Identify the correct order of following different types of storage/memory components in a computer on the basis of price per bytes of storage from the most expensive to least expensive:

I. DDR4 RAM

II. HDD

III. SSD

IV. CPU cache

Choose the correct answer from the options given below:

- (A) I, IV, III, II

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

36.) Given below are some metals which are released into environment from a variety of anthropogenic sources. Identify the metals which have been of serious concern from the point of view of pollution of water bodies

- I. Aluminium
- II. Copper
- III. Mercury
- IV. Cadmium
- V. Lead

Choose the correct answer from the options given below:

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

37.) Given below are two statements:

Statement I: Two sounds of same intensity but different frequency characteristics appear to be of different loudness

Statement II: The response of human ear to noise of different frequencies is not uniform

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

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

Assertion A: Long term low emission development strategies by each country are crucial to realizing the goals of Paris Agreement

Reason R: Nationally Determined Contributions (NDCs) declared by each country are not sufficient to keep the rise in global temperature up to 2°C above the pre-industrial level.

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

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

39.) Identify the correct sequence (decreasing order) of lifetimes of the following greenhouse gases in atmosphere:

- I. Methane
- II. Nitrous oxide
- III. Surface ozone
- IV. CFC-11

Choose the correct answer from the options given below:

- (A) IV>II>I>III

- (B) II>IV>I>III
- (C) II>IV>III>I
- (D) IV>II>III>I

40.) Given below are two statements:

Statement I: Hurricanes and typhoons are essentially the same as tropical cyclones

Statement II: Warm tropical oceans and moist air mass are pre-requisites for the development of tropical cyclones

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

41.) Which of the following modality of higher education is the example of evolution in the post-independence India?

- (A) Teacher Education
- (B) Technical Education
- (C) Legal Education
- (D) Distance Education

42.) The education imported through institutions of higher learning in India such as '*Sanskrit Vidyapith*' is an example of

- (A) Non-conventional learning programmes
- (B) Value Education Programmes
- (C) Oriental Learning Programmes
- (D) Professional education programmes

43.) Match List I with List II

List I (Stage of development of values)

- I. Stage I
- II. Stage II
- III. Stage III
- IV. Stage IV

List II (Outcomes)

- 1. Value collection through invitation
- 2. Inner evaluation
- 3. Value consolidation
- 4. Value clarification

Choose the correct answer from the options given below:

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

44.) Given below are two statements:

Statement I: The vice-chancellor of a University is an executive head who is vested with administrative as well as academic responsibilities

Statement II: For a charismatic leadership attribute in a vice chancellor both transactional as well as transformational leadership competencies are needed

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.) For ensuring effective administration which of the following is most difficult?

- (A) Changing the knowledge of individuals and groups
- (B) Changing the skill of individuals and groups
- (C) Changing the attitude of individuals and groups
- (D) Changing the behaviour of individuals and groups

Read the passage carefully and answer questions from 46 to 50.

Our life exists by constant interchange and replenishment. Every day, food is needed for the body to survive. For our vital energies to thrive every day, vital nourishment is needed. For our minds to be sharp and intelligent every day, an increase in knowledge is needed. But a human does not live by nourishment of the mind, life energy and body alone, but also by the nourishment that comes by the connection with our divine source. This deeper nourishment is needed each day for our inmost well-being. To connect to our deeper self and receive its nourishment, our awareness needs to touch deeper than our mind, vital energy and body. A mere mental awareness cannot touch this inner-most space. Our efforts too can take us only up to a certain point. The true question is, how much do we really want to connect with the divinity within us. If it is a sincere inner urge, then at some point, we realize that there is a presence that lives within us and carries us forward. To recognize this presence when it reveals itself to us, we can begin to know its nature. It exists quietly in the background, often unnoticed by our surface itself. When we are lost in the whirls of our mind, vital life energy and body, we lose our connection with this 'presence'. When we remember and sincerely seek to connect, sooner or later, the 'Presence' makes itself felt.

46.) What is needed for the mind to be active?

- (A) Life energy
- (B) Nourishment for body
- (C) More Knowledge
- (D) Constant replenishment of energy

47.) Our inmost well-being depends upon

- (A) Sharper intellect
- (B) Nourishment of body and mind
- (C) Acceptance of life energies
- (D) Connect with supreme power

48.) How can we realize the Divine Presence?

- (A) By searching for the divine
- (B) By recognising its presence within us
- (C) By reaching the innermost space
- (D) By making sincere efforts within one's own self

49.) The Divine Presence in each individual can be found through

- (A) One's own realization of divinity
- (B) The whirls of our wind
- (C) The surface self
- (D) Knowing the nature of agitated mind

50.) The passage focuses on the

- (A) Need for body replenishment
- (B) Intellectual thoughts
- (C) Importance of connect with the Divine Presence
- (D) Vital life energies