

UGC NET June2020 30th September Evening Shift

The table below provides data on the percentage (96) distribution of job vacancies in IT companies situated in various Indian cities in the year 2009 and 2019. In the year 2009, the total number of vacancies was 5.4 lakhs and in the year 2019, it was 8.6 lakhs.

City	Percentage of Job Vacancies	
	2009	2019
Bangalore	15	22
Hyderabad	10	8
Pune	12	6
Mumbai	10	18
Chennai	8	10
NCR	21	20
Other cities	24	16

1.) What is the difference between the number of vacancies available in the city of Bangalore in the year 2019 and 2009?

- (A) 108200
- (B) 113120
- (C) 118400
- (D) 96400

2.) What is the average number of vacancies available in the city of Hyderabad in the year 2009 and 2019?

- (A) 41080
- (B) 42740
- (C) 58610
- (D) 61400

3.) What is the total number of vacancies available in the city of Chennai in 2009 and in that of Mumbai in the year 2019?

- (A) 2.16 lakhs
- (B) 2.04 lakhs
- (C) 1.98 lakhs
- (D) 1.92 lakhs

4.) If the number of vacancies in the city of Pune is 48000 in the year 2019 and the percentage distribution is the same as given in the table, then what is the number of vacancies available in NCR in 2019?

- (A) 1.2 lakhs
- (B) 1.32 lakhs
- (C) 1.48 lakhs
- (D) 1.6 lakhs

5.) What is the approximate percentage rise seen in vacancies available in the city of Hyderabad from 2009 to 2019?

- (A) 21.8%
- (B) 23.23%
- (C) 26.23%
- (D) 27.41%

6.) In which level of teaching, the activities of structuring, guiding and closely supervising the students' behaviour predominate?

- (A) Autonomous development level
- (B) Reflective level
- (C) Understanding level
- (D) Memory level

7.) Which of the following constitutes the 'ability' (can do) component for describing the competence of a teacher?

- (i) Confidence in performing teaching task
- (ii) Knowledge of the subject being taught
- (iii) Skill in analyzing the learning tasks
- (iv) Experience in handling learning task related situations
- (v) Commitment to organizing teaching-learning tasks

Choose the correct answer from the options given below:

Codes

- (A) (ii), (iii) and (iv) only
- (B) (i), (ii) and (iii) only
- (C) (i), (iii) and (iv) only
- (D) (iii), (iv) and (v) only

8.) When reflective level teaching and learning are successful, students emerge with:

- (i) A strong logical basis to retain the information.
- (ii) An enlarged store of tested insights of a generalized character.
- (iii) A firm relational structure in the items of information.
- (iv) An enhanced ability to develop and solve problems on their own.
- (v) Seeing relationship and tool use of a fact.

Choose the correct answer from the options given below:

Codes

- (A) (i) and (ii) only
- (B) (ii) and (iv) only
- (C) (iii) and (iv) only
- (D) (iv) and (v) only

9.) A model of teaching is a description of:

- (A) Teacher behaviour including teacher and student talk
- (B) Learning environment including teaching behaviour
- (C) Learner-behaviour including personality characteristics
- (D) Subject matter including its logical structure

10.) Given below are 2 Statements:

Statement I: Maximum performance tests are designed to assess the upper limits of the examinee's knowledge and abilities.

Statement II: Typical response tests are designed to measure the behaviour and characteristics of examinees.

In 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.) "A university teacher plans to study the performance of students in implementing specific projects in terms of their creativity level".

Which method of research will be appropriate to use in this context?

- (A) Historical method
- (B) Descriptive survey method
- (C) Experimental method
- (D) Ex post facto method

12.) Which of the following features of research are associated with qualitative-inquiring?

- (i) Actual settings as the direct source of data
- (ii) Data collection under controlled conditions
- (iii) Concern with process rather than simply with outcomes
- (iv) Establishing relationships and explaining the causes of changes
- (v) Concerned with what are called participant perspectives

Choose the correct answer from the options given below:

Codes

- (A) (i), (iii) and (iv) only
- (B) (i), (iii) and (v) only
- (C) (ii), (iii) and (iv) only
- (D) (iii), (iv) and (v) only

13.) Identify the characteristics of a good research hypothesis from the following.

- (i) Amenable to empirical verification
- (ii) Conceptual clarity in defining the variables
- (iii) Plausibility of relationships postulated
- (iv) Accessibility in terms of researcher's resources
- (v) Extent of its non-refutability

Choose the correct answer from the options given below:

Codes

- (A) (ii), (iii) and (iv) only
- (B) (i), (ii) and (iv) only
- (C) (iii), (iv) and (v) only
- (D) (i), (ii) and (iii) only

14.) A research scholar while writing his/her thesis uses ICT at various stages of research conducted. He/she justifies the conceptual errors in interpreting results attributing the same to the specific ICT devices. This will be labelled as:

- (A) Technical incompetence
- (B) Research design's inadequacy
- (C) Moral and ethical lapse
- (D) Human error

15.) Given below are two statements:

Statement I: Action research is cyclic in so far as it involves 'Plan-Act-Observe-Reflect' cycle.

Statement II: The purpose of Action research is to develop a theory to explain causal relationship among variables.

In 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.) Shifting technologies and communication institutions contribute to:

- (A) System integration
- (B) Temporal disintegration
- (C) Psychological disintegration
- (D) Spatial integration

17.) The positive impact of communication depends upon:

- (i) Acceptance of barriers
- (ii) Planning
- (iii) Sudden expression
- (iv) Media selection
- (v) Use of language

Choose the correct answer from the options given below:

- (A) (i), (ii) and (iv) only
- (B) (ii), (iv) and (v) only
- (C) (iii), (iv) and (v) only
- (D) (i), (iv) and (v) only

18.) Given below are two statements, one is labelled as Assertion A and other is labelled as Reason R.

Assertion A: Universality of communication makes education vital and vibrant.

Reason R: Semiotic narration does not lend itself credence to make it an efficient mode of teaching.

In 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

19.) The chronological sequence in the development of communication system is:

- (i) Emergence of language
- (ii) Cave paintings
- (iii) Interpersonal communication (verbal)
- (iv) Appearance of printing technology
- (v) Telecommunication system

Choose the correct answer from the options given below:

Codes

- (A) (i), (ii), (iii), (v), (iv)
- (B) (ii), (v), (iv), (iii), (i)
- (C) (iii), (iv), (v), (i), (ii)
- (D) (ii), (i), (iii), (iv), (v)

20.) Match the following.

List-I (Example)

- (a) Addressing the nation over national TV network
- (b) Conducting a workshop for a select number of teachers
- (c) Internal conversation with fellow workers
- (d) Recollection of past events

List-II (Type of communication)

- (i) Horizontal communication
- (ii) Intra-personal Communication
- (iii) Mass Communication
- (iv) Group Communication

Codes

- (a) (b) (c) (d)
- (A) (i), (ii), (iii), (iv)
- (B) (ii), (iii), (iv), (i)
- (C) (iii), (iv), (i), (ii)
- (D) (iv), (i), (ii), (iii)

21.) Given below are two Statements:

Statement I: If the ratio of the speeds of A and B is a:b, then the ratio of the times taken by them to cover the same distance is b:a.

Statement II: Suppose two men are moving in the same direction at u m/s and v m/s respectively, where $u > v$, then their relative speed is $(u+v)$ m/s.

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

Codes

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

22.) Consider the following three expressions:

- (i) $35 \div 0.07$
- (ii) $2.5 \div 0.0005$
- (iii) $136.09 \div 43.9$

What is the correct descending order for the simplified values of A, B and C?

Choose the correct answer from the options given below:

- (A) (ii) > (i) > (iii)
- (B) (iii) > (i) > (ii)
- (C) (iii) > (ii) > (i)
- (D) (ii) > (iii) > (i)

23.) Which of the following numbers are non-prime?

- (i) 11
- (ii) 13
- (iii) 19
- (iv) 21
- (v) 15

Choose the correct answer from the options given below:

- (A) (i) and (v) only
- (B) (ii) and (iii) only
- (C) (iii) and (v) only
- (D) (iv) and (v) only

24.) Find the odd number in the following series.

644, 328, 164, 84, 44, 24, 14

- (A) 44
- (B) 84
- (C) 164
- (D) 328

25.) Kavita sold a mobile phone at the price of Rs. 1950 and made a loss of 25%. At what price will she have to sell it to get a profit of 30%?

- (A) Rs. 2600/-
- (B) Rs. 2780/-
- (C) Rs. 3000/-
- (D) Rs. 3380/-

26.) If the word HEART is written as SQPMZ, then EARTH can be written as:

- (A) QPMSZ
- (B) QPMZS
- (C) QMPSZ
- (D) QMPZS

27.) In the sequence, 10KL13, 15PQ18, 19TU22, _____, what will be last place?

- (A) 22VW23
- (B) 22VW24
- (C) 23XY25
- (D) 23XY26

28.) In the statement 'the hill has smoke because it has fire', which type of fallacy may be identified?

- (A) Asidha
- (B) Sadharana
- (C) Asadharana
- (D) Vyapyatvasiddha

29.) Consider the following.

All knowable objects are nameable;

The pot is a knowable object;

Therefore, the pot is nameable.

The above is an example of which type of inference?

- (A) Kevalanvayi
- (B) Kevalavyatireki
- (C) Anvaya Vyatireki
- (D) Shesavat

30.) Match the following.

List-I (Pairs)

- (a) Newspaper - Press
- (b) Dog - Kennel
- (c) Hen - Chick
- (d) Darkness - Lamp

List-II (Pair of analogies)

- (i) Thirst - Water
- (ii) Cow - Calf
- (iii) Cloth - Mill
- (iv) Mouse - Hole

Codes

- (a) (b) (c) (d)
- (A) (ii), (iv), (i), (iii)
- (B) (iii), (iv), (i), (ii)
- (C) (iv), (ii), (i), (iii)
- (D) (i), (iii), (ii), (iv)

31.) Match the following.

List-I

- (a) Web browser
- (b) Operating system
- (c) Secondary memory
- (d) Application software

List-II

- (i) Hard Disk
- (ii) Chrome
- (iii) MS-Word
- (iv) DOS

Codes

- (a) (b) (c) (d)
(A) (iii), (ii), (i), (iv)
(B) (ii), (iv), (i), (iii)
(C) (iii), (i), (ii), (iv)
(D) (iii), (i), (iv), (ii)

32.) Match the following.

List-I

- (a) Software
(b) Hardware
(c) Algorithm
(d) Data

List-II

- (i) Step by step procedure to solve a problem
(ii) Raw facts and figures
(iii) Hard Disk
(iv) Linux

Codes

- (a) (b) (c) (d)
(A) (iii), (i), (ii), (iv)
(B) (iii), (ii), (i), (iv)
(C) (iv), (i), (ii), (iii)
(D) (iv), (iii), (i), (ii)

33.) What type of device is a joystick?

- (A) Input
(B) Output
(C) Memory
(D) Processor

34.) Which of the following is an application software?

- (A) Android
(B) iOS
(C) Linux
(D) MS Word

35.) Information is:

- (A) Raw data
(B) Processed data
(C) Redundant data
(D) Always ordinal data

36.) Identify the correct sequence in increasing order of the carbon content per unit mass of the following reservoirs of carbon in terrestrial environment.

- (i) Plants
(ii) Peat

- (iii) Soil organic matter
- (iv) Fossil fuels

Choose the correct answer from the options given below:

- (A) (ii), (i), (iii), (iv)
- (B) (i), (iii) (ii), (iv)
- (C) (ii), (iii), (iv), (i)
- (D) (ii), (i), (iv), (iii)

37.) Given below are two statements, one is labelled as Assertion A and other is labelled as Reason R.

Assertion A: Lakes are less prone to getting polluted than rivers.

Reason R: Water in lakes gets replaced through natural processes.

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

Codes

- (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

38.) Under Millennium Development Goal 5, maternal mortality ratio between 1990 and 2015 was to be reduced by:

- (A) 50 %
- (B) 75 %
- (C) 66 %
- (D) 40 %

39.) According to the classification of Ministry of New and Renewable Energy and Central Electricity Authority of India, small hydro power plants have capacity in the range:

- (A) 1-25 MW
- (B) 100-1000 kW
- (C) 1-50 MW
- (D) 1-100 kW

40.) India's first National Policy on Education was a sequel to the recommendations of which of the following committee/commissions?

- (A) Kothari Commission
- (B) Mudaliyar Commission
- (C) Ramamurti Review Committee
- (D) Radhakrishnan Commission

41.) 'NEAT' an MHRD scheme, aims at:

- (A) Better learning outcomes in higher education
- (B) Facilitating medical entrance examination
- (C) Better financial resource management
- (D) Promoting 'SWATCH+ campuses under Swatchh Bharat Abhiyan

42.) The first National Sports University (a Central Government University) is in the State of:

- (A) Haryana
- (B) Manipur
- (C) Arunachal Pradesh
- (D) Punjab

43.) Which of the following committees/commissions in their report recommended that science Education and Research should receive high priority to accelerate national economy?

- (A) Acharya Narendra Dev Committee
- (B) Mudaliyar Commission
- (C) Radhakrishnan Commission
- (D) Kothari Commission

44.) Given below are two statements, one is labelled as Assertion A and other is labelled as Reason R.

Assertion A: Global emissions of carbon dioxide stagnated during the years 2014-2016.

Reason R: Strong energy efficiency improvement measures and low carbon technologies were deployed during 2014-2016.

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

Codes

- (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

45.) A predatory journal is the one whose publishers:

- (A) Publish for a fee with sub-standard or no peer reviewing.
- (B) The publishers of journals have acquired the publishers of journals in similar disciplinary domains.
- (C) Publish without a fee but with proper reviewing.
- (D) Insist on charging a fee for publishing after the manuscript has been accepted for publication with proper reviewing and editing.

Read the given passage carefully and answer the questions that follow (46 to 50).

The ceremonial use of slogans and catchwords in educational discussions raises the suspicion of a tenuous linkage between thought and action. As stock phrases multiply and the talk begins to take on an idealistic ring, the wary listener might well begin to wonder whether the lip service paid to these concepts is connected with what actually goes on in classrooms. It is difficult in this day and age to be opposed to democracy, creativity, and innovation in education, but how are these attractive words related to the more mundane business of teaching practice? The answer, of course, is that the two are often not related - a fact that accounts for one of the most frequently recurring complaints among today's educators: the all-too-obvious gap between theory (i.e., educational talk) on the one hand and practice on the other.

The dissonance between what teachers say, or at least what their leaders say, and what they do takes many forms and has several important consequences. For some, it lays the groundwork for the development of a cynical outlook towards the admonitions of idealists and the advocates of new and supposedly revolutionary practices. This cynicism, which grows out of a prior sense of disillusionment, strikes many young teachers as they begin to appreciate the unrealistic quality of several of the expectations aroused during the period of their professional training. Teaching as actually experienced and as described in

textbooks and college courses often turns out to be to quite different states of affairs. The result is that college instructors of education and other outsiders begin to be looked upon with suspicion by many practitioners. Even the testimony of fellow teachers may be viewed suspiciously when it conflicts with the listener's own experience in the classroom.

46.) The use of stock phrases in educational discussions has tended to reveal:

- (A) The linkage between thought and action
- (B) The difference between saying and doing in classroom contexts
- (C) The ceremonial importance of slogans
- (D) The idealistic ring of talks

47.) How are the idealistic concepts related to the routine practices in education?

- (A) They intertwine theory and practice
- (B) They make classroom teaching innovative
- (C) They make the business of education highly profitable
- (D) They lead to the identification of gap between theory and practice

48.) What is the sequel of lack of congruence between saying and doing as evident in teacher behaviour?

- (A) Opposition to revolutionary practices
- (B) Lays ground for frequent complaints
- (C) Emergence of disillusionment among teachers
- (D) Support to the admonition of idealists

49.) Why do young teachers appreciate the unrealistic quality of expectations?

- (A) Because of the cynical attitude among teachers
- (B) Because of the testimonial given by fellow teachers
- (C) Because of their professional training
- (D) Because of their own experience in teaching

50.) The passage analyses:

- (A) The linkage between language and discussions
- (B) The schism between theory and actual practice of teaching
- (C) The need to the use of high brow language in educational discussions
- (D) The importance of idealism in education