

UGC NET June2020 30th September Morning Shift

Consider the following table that shows the percentage (%) distribution of employees in five different departments A-E in a company during the years 2018 and 2019. There is a total number of 18000 and 20000 employees in the company during the years 2018 and 2019 respectively. Department wise distribution of percentage of employees is given in the following table.

Department	2018	2019
A	22	24
B	23	26
C	18	20
D	29	20
E	8	10

1.) If the average monthly salary of employees in the Department - A was Rs. 24000 in 2018, calthen what was the approximate total salary expenses of the Department - A in 2018?

- (A) Rs. 1.2 crores
- (B) Rs. 4.7 crores
- (C) Rs. 1.4 crores
- (D) Rs. 9.5 crores

2.) What is the approximate percentage increase in the number of employees in the Department - C in the year 2019 with reference to the year 2018?

- (A) 2%
- (B) 2.34%
- (C) 23.45%
- (D) 8.34%

3.) In which department the variation (represented by absolute numbers) in employee strength is maximum in 2019 with reference to 2018?

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

4.) If 300 employees had left the department - B at the end of 2018, then how many new employees joined in 2019 in the department - B?

- (A) 480
- (B) 960
- (C) 1360
- (D) 1140

5.) What is the ratio of the number of employees in the department - E in 2018 compared to those in the department - D in 2019?

- (A) 9:25
- (B) 9:15

- (C) 8:15
- (D) 8:25

6.) Which learning theory provides support for active participation of learner in the learning process in an interactional setting with intrinsic motivation as the basis?

- (A) S-R Theory of Watson
- (B) Reinforcement Theory of Skinner
- (C) Constructivist Theory of Vygotsky
- (D) Insight Theory of Kohler

7.) While reporting the result of assessment a college teacher makes use of percentile ranks in place of scores obtained by his/her students. What kind of evaluation will it be called?

- (A) Criterion-referenced
- (B) Norm-referenced
- (C) Formative
- (D) Summative

8.) Given below are two statements

Statement I: Programmed Instructional material uses active responding and immediate feedback as important principles for learning.

Statement II: Skinner's reinforcement principle is the basis for the preparation of linear types of programmed instructional material.

In 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

9.) Which of the following educational objectives are considered to be of higher level in the affective domain of taxonomic scheme?

- (i) Synthesis
- (ii) Characterization
- (iii) Analysis
- (iv) Organization
- (v) Precision

Choose the correct answer from the options given below:

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

10.) Which of the following describe understanding level teaching?

- (i) Systematic, step by step presentation to promote retention of facts presented
- (ii) Giving a large number of positive and negative examples to explain concepts
- (iii) Insisting on effective storage of information
- (iv) Helping to promote seeing of relationships among facts

(v) Critical sifting of facts and information

Choose the correct answer from the options given below:

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

11.) Given below are two statements:

Statement I: A research hypothesis is a tentative statement postulating a relationship between factual and conceptual elements of the variables.

Statement II: A researcher sets up a 'Null hypothesis' so that the deduced consequences of a research hypothesis may be directly tested.

In light of the above statements, choose the correct 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

12.) For the following research problem, which of the listed research methods will be most appropriate?
"School principal's influence on trust: Perspectives of mother's children with disabilities".

- (A) Experimental method
- (B) Focused group discussion (FGD) based method
- (C) Descriptive survey method
- (D) Ex post facto method

13.) In which one of the sampling methods, units comprising its constituents are groups taken intact rather than individually?

- (A) Cluster sampling method
- (B) Simple random sampling method
- (C) Systematic sampling method
- (D) Dimensional sampling method

14.) Given below are two statements:

Statement I: Qualitative research is an umbrella term to refer to various research strategies that share certain characteristics

Statement II: The research-data collected in qualitative research has been termed soft i.e, rich in description of people, places and conversation etc.

In 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 correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

15.) The scope for violating research ethics is considered to be relevant in respect of which of the following stages in a research study?

- (i) Formulating research hypothesis and setting up a Null hypothesis for testing it.
- (ii) Defining and delimiting the scope of the research study.
- (iii) Analyzing and interpreting research data.
- (iv) In defining a research population and method of sampling.
- (v) Reporting the research findings and using the same as a basis for policy formulation.

Choose the correct answer from the options given below:

Codes

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

16.) Because of new media, learning is no longer an assembly of:

- (A) Liberal views
- (B) Technology-based efforts
- (C) Facts
- (D) Knowledge

17.) What are the most prominent elements in the management of communication in an educational institution?

- (i) Sidetracking oppositional views
- (ii) Structuring work roles
- (iii) Commanding over colleagues and students
- (iv) Keep others informed
- (v) Guiding others wherever possible

Choose the correct answer from the options given below:

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

18.) Given below are two statements.

Statement I: In a classroom, every teacher has to perform the gatekeeping function.

Statement II: Every teacher in any higher educational institution should act as the moral custodian of students, both inside and outside it.

In light of the above statements, choose the correct 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

19.) The chronological sequence of institutions of educational communication is

- (i) AIR

- (ii) CEC
- (iii) UGC - Countrywide classroom
- (iv) Gyan Vani

Choose the correct answer from the options given below:

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

20.) Match the following.

List-I (Type of Communication)

- (a) Dyadic communication
- (b) Public communication
- (c) Organisational communication
- (d) Mass communication

List-II (Description)

- (i) Messages flow through a network of inter-dependent relationships
- (ii) Uses a medium to reach a large anonymous
- (iii) Provide equal opportunity to communicate
- (iv) Occurs within a formal and structured setting

Codes

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

21.) Match the following.

List-I (Numbers)

- (a) 41209
- (b) 841
- (c) 81
- (d) 53824

List-II (Square roots)

- (i) 9
- (ii) 29
- (iii) 232
- (iv) 203

Codes

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

22.) Match the following.

List-I (Types of numbers)

- (a) Natural numbers
- (b) Whole numbers
- (c) Integers
- (d) Prime Numbers

List-II (Examples)

- (i) (-2, -1, 0, 1, 2)
- (ii) (1, 2, 3, 4)
- (iii) (0, 1, 2, 3)
- (iv) (2, 3, 5, 7, 11, 13)

Codes

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

23.) Given below are two statements

Statement I: Compound interest involves the reinvestment of the earned interest, which in future years also earns interest.

Statement II: Simple interest is the amount earned or paid on a sum of compound interest and principal amount.

In light of the above statements, choose the most appropriate 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

24.) Find the odd pair/group.

- (i) 66-70
- (ii) 30-48
- (iii) 80-98
- (iv) 40-58
- (v) 72-90

Choose the correct answer from the options given below:

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

25.) Given below are two statements

Statement I: A percentile divides the distribution into 100 equal parts.

Statement II: Range is the distribution between zero and highest value.

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

26.) In a coded language if ANIMAL is written as LAIMNA. then CIRCLE will be written as:

- (A) ELRCIC
- (B) ELCRIC
- (C) ERLCIC
- (D) ERCLIC

27.) Find the odd one out among the following.

- (A) DfGj
- (B) HkLo
- (C) MoPs
- (D) TvWz

28.) In a family of four A, B, C and D; D is taller than B, C is shortest of all and A is taller than only one person, then:

- (i) Number of persons taller than A is the number of persons shorter than B
- (ii) D is tallest
- (iii) A is shortest
- (iv) No one is shorter than C
- (v) Only one person is shorter than B

Choose the correct answer from the options given below:

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

29.) Match the following.

List-I (Typical Aristotelian syllogism)

- (a) Socrates is mortal
- (b) Because he is a man
- (c) Whoever is a man, is a mortal e.g. Pythagoras
- (d) Socrates is a man who is invariably a mortal
- (e) Therefore Socrates is a mortal

List-II (Technical names in Nyaya philosophy)

- (i) Nigamana
- (ii) Upanaya
- (iii) Udaharan
- (iv) Hetu
- (v) Pratijna

Codes

- (a) (b) (c) (d)
- (A) (v), (iv), (iii), (ii), (i)

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

30.) What type of fallacy is implied in the following?

"Fire is cold, because it is a substance"

- (A) Badhita
- (B) Virudha
- (C) Asadharna
- (D) Anupsarhhan

31.) Given below are two statements:

Statement I: ALU stands for Arithmetic Logic Unit

Statement II: UPS stands for Uniform Power Source

In light of the above statements, choose the correct 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 true but Statement II is false
- (D) Statement I is false but Statement II is true

32.) Which of the following statements are correct?

- (i) Internet is larger than intranet
- (ii) Intranet is larger than Internet
- (iii) Internet and intranet are same
- (iv) Internet is a network of networks
- (v) World Wide Web is an example of intranet

Choose the correct answer from the options given below:

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

33.) Match the following.

List-I

- (a) Programming Language
- (b) Operating System
- (c) Internet
- (d) Application Software

List-II

- (i) Wide Area Network
- (ii) MS Power Point
- (iii) Windows XP
- (iv) C++

Codes

- (a) (b) (c) (d)

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

34.) Given below are two statements

Statement I: Example of primary memory is RAM.

Statement II: Example of secondary memory is Pen drive.

In light of the above statements, choose the correct 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 true but Statement II is false
- (D) Statement I is false but Statement II is true

35.) Which of the following is related to National Super Computing Mission of Government of India?

- (A) Param 8000
- (B) Param 10000
- (C) Param Dhavak
- (D) Param Shivay

36.) Under which of the following objectives of Millennium Development Goals, the progress in the world as a whole has been least satisfactory?

- (A) Halting by 2015 and beginning to reverse the spread of HIV/AIDS
- (B) Eliminating gender disparity in primary and secondary education by 2015
- (C) Reducing the proportion of population below national poverty line by 2015
- (D) Reducing by half proportion of people who suffer from hunger by 2015

37.) Identify the correct sequence of Carbon 'C' to Nitrogen 'N' ratio in decreasing order in organic waste material.

- (i) Food waste
- (ii) Leaves and foliage
- (iii) Paper
- (iv) Cow manure

Choose the correct answer from the options given below:

Codes

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

38.) According to Noise Pollution (Regulation and Control) Rules, 2000, the night time Noise standard prescribed for Educational Institutions is:

- (A) 55 dB A
- (B) 50 dB A
- (C) 45 dB A

(D) 40 dB A

39.) Given below are two statements

Statement I: Volatile Organic Chemicals (VOCs) are contaminants more commonly found in groundwater than in surface water.

Statement II: VOCs are one of the criterion parameters to determine drinking water quality.

In light of the above statements,

Choose the correct 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 true but Statement II is false
- (D) Statement I is false but Statement II is true

40.) Which of the following is NOT one of the Missions under National Action Plan on Climate Change?

- (A) National Water Mission
- (B) National Mission on Energy Efficiency Improvement
- (C) Green India Mission
- (D) National Mission on Solid Waste Management

41.) Which one of the following ancient universities provided for the teaching of a special subject 'Vajrayana Buddhism' along with other subjects?

- (A) Mithila University
- (B) Jagaddala University
- (C) Nalanda University
- (D) Odantapuri University

42.) In the university education system as prevalent now, which of the following bodies/committees looks after formal approval of curriculum and courses of study?

- (A) University Executive Council/Board of Management
- (B) Academic council of the concerned university
- (C) Board of studies
- (D) University Court

43.) The action plan arising from the Academic and Administrative Reforms Committee appointed by the UGC with Prof A. Gnanam as its convener included which of the following?

- (i) Choice-based credit system
- (ii) Vocationalization of higher education
- (iii) Curriculum development
- (iv) Deciding on the number of student-faculty contact hours during a semester
- (v) Skill-based courses and programmes

Choose the correct answer from the options given below:

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

44.) For the introduction of the concept of Total Quality Management (TQM) in universities, which of the following will be considered helpful?

- (i) System's thinking
- (ii) Participatory management
- (iii) Rigorous admission procedures
- (iv) SWOC (Strength, Weakness, Opportunity and Challenge analysis)
- (v) Introduction of skill-development programmes

Choose the correct answer from the options given below:

Codes

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

45.) Given below are two statements.

Statement I: Yoga is the union of body with the mind and of the mind with the soul.

Statement II: Both value education and environmental education can be integral to yoga programmes being conducted at the school/college-level.

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 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

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

If the vision of the learner in the initial period was predominantly as an empty organism and in the next as an active organism, in the period that followed it was as a social organism. The beliefs regarding the nature of the learner in the first period drew heavily from the associationist view of the human being, in the second from the Gestalt and personalistic views; later they also drew from the emerging social psychological and group dynamic views.

The child as learner as envisioned as a social organism, and learning was perceived as occurring through interpersonal actions and reactions, each person in the classroom serving as a stimulus for every other person. It is hard to overemphasize the impact on the classroom of the "group climate" concepts and studies by Lewin and his associates beginning in the late 1930s, which were given added cogency by the ideological issues of World War II. Innumerable treatises, textbooks, and programs applied these ideas and findings to the classroom, and such terms as "authoritarian", "democratic", and "laissez-faire" became, for good or ill, integral parts of the educational vocabulary. Experimenters in the learning laboratory became concerned with such previously unheard-of matters as "interpersonal cohesion" and "small group processes", and teachers in the classroom with "sociometric structure" and "group dynamics".

Concomitant changes in the image of the ideal classroom could again be observed. If the child is primarily a social organism, then the objectives of his education should be primarily social in character. And if learning is a social or group process, then a circular or group-centred classroom where everyone

faces everyone else (as once they had been forced to face only the teacher) is the most sensible and practical, even necessary, learning environment. And this indeed became a favourite image of the classroom.

46.) The first vision of the child as a learner was:

- (A) Personalistic
- (B) Social
- (C) Humanistic
- (D) Associationistic

47.) In the social organistic view, learning occurred through:

- (A) Each individual acting as a stimulus
- (B) Reactionary measures
- (C) A non-competitive environment
- (D) Each person holding fort for others

48.) The group climate of the classroom got reinforced by:

- (A) Social issues
- (B) Ideological issues
- (C) Inter-personal issues
- (D) Individual issues

49.) In the learning laboratory, the focus shifted to:

- (A) Production of textbooks
- (B) Creation of educational vocabulary
- (C) Democratization of the process
- (D) Understanding group dynamics

50.) The author of the passage is in favour of the idea of:

- (A) Vertical learning
- (B) Laboratory learning
- (C) Circular learning
- (D) Teacher-focussed learning