

UGC NET June 2020 5th November Evening Shift

The following table shows the number of newspapers printed as shown inside the brackets and the number of newspapers distributed at different cities on a particular date. Answer the following question.

City-wise Distribution of Newspaper:

City	Newspaper A (2000)	Newspaper B (2000)	Newspaper C (1000)	Newspaper D (1000)
Delhi	1000	750	320	250
Lucknow	500	250	250	175
Varanasi	200	150	165	155
Jaipur	200	350	135	160

1.) In which city the distribution of paper is minimum?

- (A) Jaipur
- (B) Lucknow
- (C) Delhi
- (D) Varanasi

2.) What is the percentage of distributed newspapers compared to printed newspapers?

- (A) 83.5%
- (B) 84.0%
- (C) 82.0%
- (D) 82.5%

3.) What is the percentage of distribution of newspaper C in all cities as compared to total number of newspapers distributed?

- (A) 16.46%
- (B) 17.36%
- (C) 18.42%
- (D) 16.36%

4.) What is the ratio of distribution of Newspaper A to Newspaper B?

- (A) 16:15
- (B) 7:5
- (C) 19:15
- (D) 17:15

5.) What is the ratio of total distributed paper to total newspaper printed?

- (A) 5:6
- (B) 51:60
- (C) 167:200
- (D) 52:61

6.) If teaching is viewed as a continuum, which of the following modality, involves active 'give' and 'take' between the teacher and learner?

- (A) Training
- (B) Conditioning
- (C) Instruction
- (D) Indoctrination

7.) What is the correct sequence from lower to higher, for indicating learning outcomes related to affective domain?

- (i) Receiving
- (ii) Valuing
- (iii) Responding
- (iv) Organization
- (v) Characterization

Choose the correct answer from the options given below:

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

8.) Given below are two statements.

Statement I: Ability of an individual or group implies the components of knowledge, skill and experience.

Statement II: Willingness of an individual or group implies the components of confidence, commitment and motivation.

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

9.) Match the following.

List-I (Basic Management Functions performed by Teachers)

- (a) Planning
- (b) Organizing
- (c) Motivating
- (d) Controlling

List-II (Description)

- (i) It involves feedback of results and follow up to compare accomplishments.
- (ii) It involves engagement in task relevant activities.
- (iii) It involves bringing together resources and people.
- (iv) It involves setting goals and objectives.

Codes

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

(D) (iii), (iv), (i), (ii)

10.) Given below are 2 statements: One is labelled as Assertion A and other is labelled as Reason R.

Assertion A: The use of ICT has a great potential for optimizing learning outcomes.

Reason R: ICT promotes scope for variety, flexibility and attractiveness.

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

11.) Identify the non-probability sampling procedures from the following:

(i) Simple random sampling

(ii) Quota sampling

(iii) Cluster sampling

(iv) Snowball sampling

(v) Dimensional sampling

Choose the correct answer from the options given below:

Codes

(A) (i), (ii) and (iii) only

(B) (ii), (iii) and (iv) only

(C) (ii), (iv) and (v) only

(D) (iii), (iv) and (v) only

12.) A college principal conducts an ethnographic probe into the problems faced by tribal students. Which method of sampling will be most appropriate?

(A) Random sampling

(B) Stratified sampling

(C) Cluster sampling

(D) Systematic sampling

13.) Statement I: Fundamental research is directed at exploring the applicability of truths and principles already established.

Statement II: Action research aims at ameliorating the ongoing conditions and practices.

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

14.) Given below are 2 statements, one is labelled as Assertion A and other is labelled as Reason R.

Assertion A: Research ethics and its observance is necessary in the interest of credibility and quality of research.

Reason R: The policy making bodies have to be accountable for pursuing research with an eye on promoting excellence.

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

15.) A researcher intends to find out the differences in motivational outlook of first degree level students in terms of their belongingness to rural/urban areas and the educational status of parents. What will be the dependent variable in this study?

- (A) Belongingness to rural/urban areas
- (B) First degree level
- (C) Educational status of parents
- (D) Motivational outlook

16.) Distance in Inter-personal communication is indicative of one's:

- (A) Showmanship
- (B) Social Strategy
- (C) Culture
- (D) Business-like approach

17.) Identify the correct sequence of the following elements in the latter part of the communication process after decoding:

- (i) Environment
- (ii) Feedback
- (iii) Context
- (iv) Interference

Choose the correct answer from the options given below:

Codes

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

18.) Match the following.

List-I (Types of Media)

- (a) Synchronous media
- (b) Asynchronous media
- (c) Rich media
- (d) Hyper media

List-II (Example)

- (i) Application of multi-media
- (ii) Interactive multi-media
- (iii) E-mail
- (iv) Telephone

Codes

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

19.) Given below are 2 statements: one is labelled as Assertion A and other is labelled as Reason R.

Assertion A: Effective communicators align appearance with body language and tone.

Reason R: Such an alignment forms part of the art of persuasion.

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

20.) Which of the following are contributive to positive influence on teacher-student communication?

- (i) Making assumptions
- (ii) Limited interaction
- (iii) Fostering a sense of belongingness
- (iv) Acknowledging participation
- (v) Persuasive attitude

Choose the most appropriate answer from the options given below:

Codes

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

21.) A pipe normally fills a tank in 12 hours, but, due to a leak, it takes 8 hours more. If the tank is full, how many hours will the leak take to empty it?

- (A) 12
- (B) 22
- (C) 30
- (D) 33

22.) What is the remainder when 64 divides 1671?

- (A) 4
- (B) 5
- (C) 6
- (D) 7

23.) Given below are two statements:

Statement I: Two triangles are said to be congruent if their corresponding angles are equal and corresponding sides are proportional.

Statement II: Two triangles are said to be similar if their corresponding angles and corresponding sides are equal.

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

24.) Find the wrong number in the series:

7, 8, 18, 57, 228, 1165, 6996

- (A) 1165
- (B) 228
- (C) 57
- (D) 18

25.) Given below are 2 statements:

Statement I: When we perform an experiment, then the set S of all possible outcomes is called the sample space.

Statement II: Any superset of a sample space is called an event.

In the light of the above statements. choose the correct 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

26.) In terms of the relationship indicated below, which word will correctly pair to replace the question mark?

Frown : Pain :: Smile :

- (A) Joy
- (B) Sorrow
- (C) Failure
- (D) Discomfiture

27.) Given below are 2 statements: one is labelled as Assertion A and other is labelled as Reason R.

Assertion A: Since the perception of hardness is not necessarily connected with its colour, it can be said that all the perceptions seen conjoined but never connected.

Reason R: Causal relationship is always contingent and probable because it is derived from 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

28.) Given below are 2 propositions:

All philosophers are fallible.

Hegel is not fallible.

In the classical square of opposition, which one of the following is the correct option for this?

- (A) Contrary
- (B) Sub contrary
- (C) Contradictory
- (D) Subaltern

29.) Given below are 2 propositions.

Some animals are fierce.

Some animals are not fierce.

In the classical square of opposition which one of the following is the correct option?

- (A) Subaltern
- (B) Contradictory
- (C) Contrary
- (D) Sub-contrary

30.) Match the following.

List-I (Concept)

- (a) Causality is apriori
- (b) Causality is synthetic
- (c) Causality is dialectical
- (d) Causality is material

List-II (Philosopher)

- (i) Aristotle
- (ii) Hegel
- (iii) Hume
- (iv) Kant

Codes

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

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

31.) CDMA stands for:

- (A) Code Division Multiplexed Access
- (B) Code Division Multiple Access
- (C) Code Division Mobile Access
- (D) Code Division Mobile Adapter

32.) In display technology, CRT stands for:

- (A) Cathode Ray Transmission
- (B) Computer Ray Transmission
- (C) Cathode Ray Tube
- (D) Cathode Ray Transducer

33.) Given below are 2 Statements:

Statement I: External hard disk is a primary memory.

Statement II: In general, pen drives have more storage capacity than external hard disks.

In the light of the above statements. choose the correct 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 the following.

List-I

- (a) Web 2.0 Applications
- (b) Search Engines
- (c) System Software
- (d) High level languages

List-II

- (i) Windows 8, i-OS
- (ii) C++, Java
- (iii) Blogs, Twitter
- (iv) Google, Yahoo

Codes

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

35.) Which of the following statements are true?

- (i) An algorithm may produce no output.
- (ii) An algorithm expressed in a programming language is called a computer program.
- (iii) An algorithm is expressed in a graphical form known as flowchart.
- (iv) An algorithm can have infinite sequence of instructions.

Choose the correct answer from the options given below:

Codes

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

36.) Exposure to excessive noise pollution can cause:

- (i) Hearing impairment
- (ii) Insomnia
- (iii) Rise in blood pressure
- (iv) Respiratory disease
- (v) Reduced work efficiency

Choose the most appropriate answer from the options given below:

Codes

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

37.) In Photo Voltaic system (PV-system) arrange the following from smallest to the largest unit.

- (i) Module
- (ii) Array
- (iii) Solar cell
- (iv) Array field

Choose the correct answer from the options given below:

Codes

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

38.) Which of the following types of particulate matter pollutants are used in calculation of Air Quality Index (AQI)?

- (i) TSP (Total Suspended Particles)
- (ii) PM 10 (Particulate matters of size 10 micron or less)
- (iii) PM 2.5 (Particulate matter of size 2.5 micron or less)
- (iv) PM 1 (Particulate matter of size 1 micron or less)

Choose the correct answer from the options given below:

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

39.) Match the following.

List-I (International Agreements)

- (a) Montreal Protocol
- (b) Kyoto Protocol
- (c) Convention on Biodiversity
- (d) International Solar Alliance

List-II (Provisions)

- (i) Clean affordable energy
- (ii) Controlling consumption and production of Halons
- (iii) Emission trading
- (iv) Clearing House Mechanism

Codes

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

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

40.) Match the following.

List-I (Toxic and Hazardous substances)

- (a) Vinyl Chloride
- (b) Polychlorinated biphenyls (PCBs)
- (c) Benzo(a)pyrene
- (d) Polycyclic Aromatic Hydrocarbons

List-II (Major sources)

- (i) Electric Insulations
- (ii) Fuel combustion
- (iii) Plastic industrial uses
- (iv) Waste Incineration

Codes

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

41.) In which year, All India Council for Technical Education was set up as a statutory body by an Act of Parliament?

- (A) 1986
- (B) 1987
- (C) 1988
- (D) 1989

42.) Which are the characteristics of an effective team in an institution of higher learning?

- (i) The atmosphere tends to be informal in which members of team are involved.
- (ii) There is a lot of discussion in which everyone participates.
- (iii) The task of the group is well understood and accepted by the group members.
- (iv) The members of the group are not afraid of putting forth their ideas.
- (v) The members of the group avoid disagreement and conflict among themselves.

Choose the correct answer from the options given below:

Codes

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

43.) Helping individuals and social groups acquire social values, contributes to development of:

- (A) Environmental awareness
- (B) Environmental knowledge
- (C) Environmental attitude
- (D) Environmental skills

44.) The principal responsibilities of Academic Council in a University include:

- (i) Maintenance of quality and standards of academic programmes.
- (ii) Planning, coordination, development, oversight and review of academic programmes of University.
- (iii) Laying down the essential qualifications for recruitment of faculty in various disciplines.
- (iv) Framing and revising/updating the contents of courses of various academic programmes.
- (v) Approval of fee structure for various academic programmes.

Choose the correct answer from the options given below:

Codes

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

45.) Match the following.

List-I (Types of Appraisal)

- (a) Developmental
- (b) Managerial
- (c) Laissez-faire
- (d) Judgmental

List-II (Characteristics)

- (i) Concerned with doing and achieving.
- (ii) Concerned with moral, ethical and professional values.
- (iii) Concerned with maintenance of social control.
- (iv) Concerned with the importance of self-development.

Codes

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

Read the passage and answer the following question (46 to 50).

'Power' has been differentiated by numerous authors and practitioners. Amitai Etzioni was among the first to describe individuals who are able to induce other individuals to comply and take action because of their position in the organization as having position power: those who derive their power from their followers are considered to have personal power. Some are skilled enough to have both. Position power is the extent to which those people to whom managers' report is willing to delegate authority and responsibility to them. So position power tends to flow down in an organization. This is not to say that leaders do not have any impact on how much position power they accrue. They certainly do. The confidence and trust they develop with the people around them will often determine the willingness of upper management to delegate to them. Remember, though, that whatever power is delegated downward can also be taken back. Personal power is the extent to which followers respect, feel good about, and are committed to the leader. They believe that their own needs and goals will be recognized, supported, and facilitated by their leader. As such personal power in an organisational setting comes from below - from the followers — and so flows up in an organisation. Personal power is not inherent in the leader. If it were, managers with

personal power could take over any department and have the same commitment and rapport they had in their last department. Personal power is a day-to-day phenomenon. Personal power is a critical part of having and demonstrating emotional intelligence.

46.) When individuals in an organization ask others to comply with their instructions, it is identified as:

- (A) organizational power
- (B) positional power
- (C) authoritarian power
- (D) delegated power

47.) Personal power emanates from:

- (A) the group of managers
- (B) the delegation of responsibility
- (C) the followers
- (D) the top-level executives in an organization

48.) Delegation of power to managers depends upon:

- (A) downward flow of authority
- (B) the whimsicality of top managers
- (C) the people around the management
- (D) the trust reposed by the top managers

49.) Position power, when delegated is:

- (A) volatile
- (B) permanent
- (C) absolute
- (D) inherent

50.) The passage recognizes the critical role of:

- (A) faith of the leader in his followers
- (B) emotional intelligence to have personal power
- (C) needs and goals of managers for personal power
- (D) power flowing upwards so that managers can gain personal power