

UGC NET Dec 2020 June 2021 5th January 2022 Evening Shift

1.) Consider the following table which contain number of blood samples given in bracket collected by a hospital to identify blood group in a particular month. Based on the data in the table answer question.

Hospital Reported Blood group	Hospital W (1000)	Hospital X (500)	Hospital Y (1000)	Hospital Z (500)
A Positive	300	150	350	100
B Positive	350	100	300	100
A Negative	150	50	150	50
B Negative	100	50	50	150

Which hospital reported highest negative blood group?

- (A) Hospital Y
- (B) Hospital X
- (C) Hospital Z
- (D) Hospital W

2.) Consider the following table which contain number of blood samples given in bracket collected by a hospital to identify blood group in a particular month. Based on the data in the table answer question.

Hospital Reported Blood group	Hospital W (1000)	Hospital X (500)	Hospital Y (1000)	Hospital Z (500)
A Positive	300	150	350	100
B Positive	350	100	300	100
A Negative	150	50	150	50
B Negative	100	50	50	150

What is the percentage of A-Negative from the total number of blood samples collected?

- (A) 14.22
- (B) 18.00
- (C) 13.33
- (D) 14.33

3.) Consider the following table which contain number of blood samples given in bracket collected by a hospital to identify blood group in a particular month. Based on the data in the table answer question.

Hospital Reported Blood group	Hospital W (1000)	Hospital X (500)	Hospital Y (1000)	Hospital Z (500)
A Positive	300	150	350	100
B Positive	350	100	300	100
A Negative	150	50	150	50
B Negative	100	50	50	150

What is the ratio of A-positive cases to A-Negative cases?

- (A) 5:3
- (B) 9:4
- (C) 9:5
- (D) 5:4

4.) Consider the following table which contain number of blood samples given in bracket collected by a hospital to identify blood group in a particular month. Based on the data in the table answer question.

Reported Blood group \ Hospital	Hospital W (1000)	Hospital X (500)	Hospital Y (1000)	Hospital Z (500)
A Positive	300	150	350	100
B Positive	350	100	300	100
A Negative	150	50	150	50
B Negative	100	50	50	150

What is the percentage of B-positive cases from the total positive cases reported?

- (A) 48.57
- (B) 47.57
- (C) 49.51
- (D) 46.11

5.) Consider the following table which contain number of blood samples given in bracket collected by a hospital to identify blood group in a particular month. Based on the data in the table answer question.

Reported Blood group \ Hospital	Hospital W (1000)	Hospital X (500)	Hospital Y (1000)	Hospital Z (500)
A Positive	300	150	350	100
B Positive	350	100	300	100
A Negative	150	50	150	50
B Negative	100	50	50	150

What is the percentage of blood group reported in the table?

- (A) 82.12
- (B) 83.33
- (C) 84.33
- (D) 84.12

6.) Which among the following is not related to the characteristics of cooperative learning?

- (A) Experiences that develop good learning and social skills
- (B) Students feel overloaded with too much work in groups
- (C) Building positive relationships with students
- (D) Provide individual attention and assistance to one another

7.) The principle “Students learn together, but perform alone” Is an example of:

- (A) Individual accountability
- (B) Positive interdependence
- (C) Face-to-face interaction
- (D) Group processing

8.) Match List I with List II

List I

Model of Teaching

- A. Positive Interdependence
- B. Structured inquiry
- C. Role playing

D. Jurisprudential inquiry

List II

Developer

I. Fannie Shaftel

II. David Johnson

III. Donal Oliver and James Shaver

IV. Robert Slavin

Choose the correct answer from the options given below:

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

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

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

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

9.) Which of the following methods are learner — centred teaching methods?

A. Active learning

B. Co operative learning

C. Inductive teaching and learning

D. Passive learning

Choose the most appropriate answer from the options given below:

(A) A, B, C only

(B) B, C, D only

(C) A and D only

(D) A, C, D only

10.) Various kinds of thinking are enhanced by particular models of teaching. Concept formation is one such model which trains to solve problems inductively. Identify the correct sequence of stages for concept formation.

A. Grouping items into categories with common attributes of members

B. Identifying the topic / problem

C. Developing labels for categories

D. Enumerating the data relevant to topic / problem

Choose the correct answer from the options given below:

(A) A, B, C, D

(B) B, C, A, D

(C) B, D, A, C

(D) D, A, C, B

11.) When a respondent is aware of being measured then its effect on his behaviour is identified as

(A) Self — consciousness

(B) Reactivity

(C) Artificiality

(D) Identity effect

12.) Summarising and interpreting primary studies related to the identified research question or objective in a qualitative manner is called:

(A) Qualitative review

(B) Realistic review

(C) Narrative review

(D) Meta review

13.) Which of the following techniques are used to control extraneous variables in research?

- A. Change of instrument
- B. Randomisation
- C. Matching
- D. Removing variables
- E. Changing the research method

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, B, E only

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

Assertion A: Unique case orientation is possible in qualitative research which may later lead to cross — case analysis.

Reasons R: Design flexibility is the hallmark of qualitative research as it is open to situational changes.

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.) Match List I with List II:

List I

Type of validity

- A. Face Validity
- B. Concurrent validity
- C. Construct
- D. Predictive

List II

Reflection

Indicates adequacy of instrument

Indicates the extent to which the measurement is used

Compares a new test to an already established test.

The extent to which a score on a scale forecasts scores on same criterion measure

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

16.) 'This is me' aspect of communication reflects:

- (A) The audience preference
- (B) The speaker's personality
- (C) The ego-centric attitude
- (D) The low level of confidence

17.) The golden rules that communicators should follow are:

- A. They should be aloof
- B. They should take sides

- C. They must be heard
- D. They must be understood
- E. They must be appreciated

Choose the correct answer from the options given below:

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

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

Assertion A: Communication competence is related to the power of knowledge in a classroom.

Reasons R: Communication competence permits choices of communicating as required in the classroom context.

In the light of the above statements. choose the most appropriate 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

19.) The sequence of elements in a classroom speech is:

- A. Introduction
- B. Description
- C. Feedback
- D. Clarification
- E. Conclusion

Choose the correct answer from the options given below:

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

20.) Match List I with List II:

List I

Scholar

- A. Adi Shankara
- B. Bharatha Muni
- C. Panini
- D. Ramanuja

List II

Communication variable

- I. Importance of grammar
- II. Concept of 'rasa'
- III. Use of native language
- IV. Intrapersonal communication

Choose the correct answer from the options given below:

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

21.) The number which is nearest to 3105 and exactly divisible by 21 is:

- (A) 3101
- (B) 3108
- (C) 3087
- (D) 3107

22.) Given below are two statements :

Statement I: To convert a speed given in m/s into a speed in km/h, we multiply with 5/18.

Statement II: To convert a speed given in km/h into a speed in m/s, we multiply with 18/5.

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

23.) How many terms are there in the following sequences?

1, 2, 4, 8,, 4096

- (A) 12
- (B) 13
- (C) 14
- (D) 15

24.) The value of $\sqrt{5\sqrt{5\sqrt{5\sqrt{5}}\dots}} (\infty \text{ times})$

- (A) 5
- (B) 6
- (C) 4.5
- (D) 6.78

25.) Match List I with List II:

List I

- A. Supplementary angles
- B. Complementary angles
- C. Acute angles
- D. Obtuse angles

List II

- I. Angles less than 90°
- II. Two angles whose sum is 180°
- III. Angles greater than 90° but less than 180°
- IV. Two angles whose sum is 90°

Choose the correct answer from the options given below:

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

26.) Given below are two statements:

Statement I: There is greater stress laid on the material aspects of inference by the exponent of Nyāya system.

Statement II: There is greater stress laid on the format aspect of the syllogistic expression in western logic.

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

27.) Given below are two statements:

Statement I: The evaluation of an argument involves two steps namely evaluating the link between premises and conclusion and evaluating the truth of the premises.

Statement II: Deductive arguments in which the conclusion actually follows from the premises are said to be valid. and those that also have true premises are said to be sound.

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

28.) When is a series of terms said to be in the order of increasing extension?

- A. When each term in the series (except the first) denotes a class having more members than class denoted by the term preceding it.
- B. When the class size gets larger with each successive term.
- C. When each term in the series (except the first) denotes a class having less members than the class denoted by the term preceding it.
- D. When the class size gets smaller with each successive term

Choose the most appropriate answer from the options given below:

- (A) Only A and B are correct
- (B) Only B and D are correct
- (C) Only C and D are correct
- (D) Only A and D are correct

29.) In case of anumāna (inference) identify the sequences of five steps of syllogistic argument according to Nyāya:

- A. The mountain has fire
- B. The mountain also has smoke accompanied by fire, like kitchen
- C. Therefore the mountain has fire
- D. Because of smoke
- E. Wherever there is smoke, there is fire. as in the kitchen

Choose the correct answer from the options given below:

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

30.) Given below are two statements:

Statement I: Relationship of invariable concomitance (vyāpti) can be claimed to exist between two things if they are causally related.

Statement II: Relationship of invariable concomitance can be claimed to exist between two things if they are related as species-genus.

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

31.) In computers ASCII stands for:

- (A) Algorithm Selection Code Information Interchange
- (B) Asymptotic Sorting Code Intermediate Interface
- (C) American Standard Control Information Interchange
- (D) American Standard Code for Information Interchange

32.) A reputed company employed Mr. Harsh to manage and maintain their networking architecture and wide area connectivity. Which of these best describes his job profile?

- (A) Programmer
- (B) Architect
- (C) Networking engineer
- (D) Web designer

33.) Given below are two statements:

Statement I: Operating system is a set of program necessary to carry out operation for a specified application.

Statement II: Hardware represents the physical and tangible parts of the computer.

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.) Multimedia files are the documents that contain a confirmation of :

- A. Text
- B. Photograph
- C. Video
- D. Computer
- E. Audio

Choose the correct answer from the options given below:

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

35.) Given below are two statements:

Statement I: A Webinar allows a speaker from the hosting organization to share multimedia content with audiences that can be located anywhere.

Statement II: A Webinar allows speaker and participants to share multimedia content located anywhere.

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

36.) Which of the following are characteristics/properties of permanent hardness in water?

- A. Presence of bicarbonates of calcium and magnesium
- B. Presence of sulphates of calcium and magnesium
- C. Forms good lather when comes in contact with soap

D. Presence of chloride of calcium and magnesium

E. Can be removed by boiling the water

Choose the correct answer from the options given below :

(A) B, C and D only

(B) A and D only

(C) A, B, D and E only

(D) B and D only

37.) The Environment (protection) Act, 1986 was the result of India's commitment, to take appropriate action for the protection and improvement of environment, at the:

(A) 1985 Vienna convention for protection of ozone layer

(B) Convention on long range trans boundary air pollution, 1983

(C) Convention on international trade in endangered species, 1975 (CITES)

(D) United Nation's Conference on the human environment, Stockholm, 1972

38.) To characterize hazardous waste following characteristics are taken into account:

A. Conductivity

B. Ignitability

C. Corrosivity

D. Magnetic susceptibility

E. Reactivity

Choose the correct answer from the options given below:

(A) A, B, C and E only

(B) B, C and E only

(C) A, C and D only

(D) B, C, D and E only

39.) Poly crystalline silicon often used in Photovoltaic cells as semiconductors are:

(A) Many individual crystals with different orientations

(B) Many individual crystals with similar orientations

(C) Amorphous silicon converted to crystal silicon

(D) Crystal silicon grown in laboratory

40.) What is the correct sequence of prescribed limits in residential areas of 24 hourly averaged following pollutants by Central Pollution Control Board of India?

A. PM_{2.5}

B. PM₁₀

C. SO_x

D. Pb

Choose the correct answer from the options given below:

(A) Pb > SO_x > PM₁₀ > PM_{2.5}

(B) PM₁₀ > PM_{2.5} > SO_x > Pb

(C) PM_{2.5} > PM₁₀ > Pb > SO_x

(D) PM₁₀ > SO_x > PM_{2.5} > Pb

41.) Which among the following is NOT the responsibility of UGC?

(A) To regulate quality of higher education.

(B) To maintain discipline in campuses of institutions of higher education.

(C) To fund research projects of faculty

(D) To suggest model curriculum to the universities

42.) Match List I with List II:

List I

Personality

A. Rabindranath Tagore

B. S. Chandrashekar

C. Manjul Bhargava

D. Amartya Sen

List II

Domain

I. Physics

II. Literature

III. Economics

IV. Mathematics

Choose the correct answer from the options given below:

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

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

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

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

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

Assertion A: There are regional variations in the quality of education provided by the institutions of higher education.

Reasons R: Institutions of higher education cannot be compared as they cater to the needs of different social groups of students.

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

44.) Which among the following are the types of universities existing in India currently?

A. Community University

B. Deemed University

C. Research University

D. Central University

E. Private University

Choose the correct answer from the options given below:

(A) A, B, C, D only

(B) A, B, D, E only

(C) B, D, E only

(D) A, C, D only

45.) Given below are two statements:

Statement I: Modern Universities in India were established first during colonial period.

Statement II: The British government were genuinely interested in expanding the institutions of higher education in India.

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

46.) Read the passage and answer questions.

The world over, leisure time has increased tremendously since World War II. In this time period, social problems and maladies have also increased. Frustrations, nervous break-downs, broken marriages, alcoholism and crime rates are directly related to too much time with nothing to do. Combine this with the permissiveness that has permeated our culture and the attitude of doing just enough to get by. And the problems are multiplied workers often lose pride in their workmanship and their performance begins to go down. When performance goes down, shoddy merchandise is produced, and shoddy Merchandise does not find a ready market because consumers anywhere demand quality. They turn to foreign imports and the local producer is caught in the squeeze by lowered sales volume. Every nation must resell the idea of performance and honest effort for an honest day's pay. Surely the world owes us a living, but we have to work for it. We have to reverse the philosophy of doing little and collecting much or we will be caught in the pinch of pricing ourselves out of quality products and services. The only plan that is going to work over the long haul is an internal change in our philosophy. We must produce the quality merchandise people demand, at the right price or the consumer will turn more and more to imported products. Fortunately, we can do this, we say this without any mental reservation, because the local worker, under controlled tests, has consistently out produced his counterparts on project after project. Better quality means better price. Honest efforts, not higher tariffs is the solution to the problem.

Too much leisure time will result in:

- (A) More productivity
- (B) Scope for recreation
- (C) More social issues to solve
- (D) Increased permissiveness

47.) Read the passage and answer questions.

The world over, leisure time has increased tremendously since World War II. In this time period, social problems and maladies have also increased. Frustrations, nervous break-downs, broken marriages, alcoholism and crime rates are directly related to too much time with nothing to do. Combine this with the permissiveness that has permeated our culture and the attitude of doing just enough to get by. And the problems are multiplied workers often lose pride in their workmanship and their performance begins to go down. When performance goes down, shoddy merchandise is produced, and shoddy Merchandise does not find a ready market because consumers anywhere demand quality. They turn to foreign imports and the local producer is caught in the squeeze by lowered sales volume. Every nation must resell the idea of performance and honest effort for an honest day's pay. Surely the world owes us a living, but we have to work for it. We have to reverse the philosophy of doing little and collecting much or we will be caught in the pinch of pricing ourselves out of quality products and services. The only plan that is going to work over the long haul is an internal change in our philosophy. We must produce the quality merchandise people demand, at the right price or the consumer will turn more and more to imported products. Fortunately, we can do this, we say this without any mental reservation, because the local worker, under controlled tests, has consistently out produced his counterparts on project after project. Better quality means better price. Honest efforts, not higher tariffs is the solution to the problem.

When the local products are of sub-standard quality, the consumers will prefer:

- (A) Imported goods
- (B) Paying more for quality products
- (C) To indulge in more leisure activities
- (D) To avoid the intended buying

48.) Read the passage and answer questions.

The world over, leisure time has increased tremendously since World War II. In this time period, social problems and maladies have also increased. Frustrations, nervous break-downs, broken marriages, alcoholism and crime rates are directly related to too much time with nothing to do. Combine this with the permissiveness that has permeated our culture and the attitude of doing just enough to get by. And the problems are multiplied workers often lose pride in their workmanship and their performance begins to go down. When performance goes down, shoddy merchandise is produced, and shoddy Merchandise does not find a ready market because consumers anywhere demand quality. They turn to foreign imports and the local producer is caught in the squeeze by lowered sales volume. Every nation must resell the idea of performance and honest effort for an honest day's pay. Surely the world owes us a living, but we have to work for it. We have to reverse the philosophy of doing little and collecting much or we will be caught in the pinch of pricing ourselves out of quality products and services. The only plan that is going to work over the long haul is an internal change in our philosophy. We must produce the quality merchandise people demand, at the right price or the consumer will turn more and more to imported products. Fortunately, we can do this, we say this without any mental reservation, because the local worker, under controlled tests, has consistently out produced his counterparts on project after project. Better quality means better price. Honest efforts, not higher tariffs is the solution to the problem.

The idea of honest performance is linked to:

- (A) Higher Prices for local products
- (B) Earning an honest day's pay
- (C) Less work and more returns
- (D) Pricing out quality products and services

49.) Read the passage and answer questions.

The world over, leisure time has increased tremendously since World War II. In this time period, social problems and maladies have also increased. Frustrations, nervous break-downs, broken marriages, alcoholism and crime rates are directly related to too much time with nothing to do. Combine this with the permissiveness that has permeated our culture and the attitude of doing just enough to get by. And the problems are multiplied workers often lose pride in their workmanship and their performance begins to go down. When performance goes down, shoddy merchandise is produced, and shoddy Merchandise does not find a ready market because consumers anywhere demand quality. They turn to foreign imports and the local producer is caught in the squeeze by lowered sales volume. Every nation must resell the idea of performance and honest effort for an honest day's pay. Surely the world owes us a living, but we have to work for it. We have to reverse the philosophy of doing little and collecting much or we will be caught in the pinch of pricing ourselves out of quality products and services. The only plan that is going to work over the long haul is an internal change in our philosophy. We must produce the quality merchandise people demand, at the right price or the consumer will turn more and more to imported products. Fortunately, we can do this, we say this without any mental reservation, because the local worker, under controlled tests, has consistently out produced his counterparts on project after project. Better quality means better price. Honest efforts, not higher tariffs is the solution to the problem.

How can we move towards quality products that people demand?

- (A) Importing more and more foreign goods
- (B) By working for longer hours
- (C) Maintaining our existing philosophy of work
- (D) Produce quality products and price them properly

50.) Read the passage and answer questions.

The world over, leisure time has increased tremendously since World War II. In this time period, social problems and maladies have also increased. Frustrations, nervous break-downs, broken marriages, alcoholism and crime rates are directly related to too much time with nothing to do. Combine this with the

permissiveness that has permeated our culture and the attitude of doing just enough to get by. And the problems are multiplied workers often lose pride in their workmanship and their performance begins to go down. When performance goes down, shoddy merchandise is produced, and shoddy Merchandise does not find a ready market because consumers anywhere demand quality. They turn to foreign imports and the local producer is caught in the squeeze by lowered sales volume. Every nation must resell the idea of performance and honest effort for an honest day's pay. Surely the world owes us a living, but we have to work for it. We have to reverse the philosophy of doing little and collecting much or we will be caught in the pinch of pricing ourselves out of quality products and services. The only plan that is going to work over the long haul is an internal change in our philosophy. We must produce the quality merchandise people demand. at the right price or the consumer will turn more and more to imported products. Fortunately, we can do this. we say this without any mental reservation. because the local worker, under controlled tests, has consistently out produced his counterparts on project after project. Better quality means better price. Honest efforts, not higher tariffs is the solution to the problem.

The issue of low quality products can be addressed through:

- (A) Honest workmanship
- (B) Imposition of higher tariffs on imported goods
- (C) Lowering the production volume
- (D) Hiring of non-local workers