

## UGC NET Dec 2020 and June 2021 4<sup>th</sup> January 2022 Evening Shift

1.) Study the given table carefully and answer the question that follows:

The following table gives the percentage of marks obtained by 6 students in 6 different subjects in an examination.

Note: The number in the bracket gives the maximum marks in each subject.

Student	Subject (Max Marks)					
	Physics (100)	Chemistry (100)	Math (100)	History (50)	Computer Science (50)	Hindi (50)
A	80	76	68	40	36	24
B	90	68	72	42	38	26
C	85	81	75	38	32	31
D	75	79	58	28	28	34
E	45	65	62	31	29	28
F	68	72	68	26	34	30

What is the percentage of total marks obtained by student A?

- (A) 71
- (B) 74
- (C) 73
- (D) 72

2.) Study the given table carefully and answer the question that follows:

The following table gives the percentage of marks obtained by 6 students in 6 different subjects in an examination.

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What is the difference of percentage in the total marks of students D and E?

- (A) 9.28
- (B) 9.68
- (C) 9.43
- (D) 9.34

3.) Study the given table carefully and answer the question that follows:

The following table gives the percentage of marks obtained by 6 students in 6 different subjects in an examination.

Note: The number in the bracket gives the maximum marks in each subject.

Student	Subject (Max Marks)					
	Physics (100)	Chemistry (100)	Math (100)	History (50)	Computer Science (50)	Hindi (50)

Student	Physics(100)	Chemistry(100)	Math(100)	History(50)	Computer Science (50)	Hindi(50)
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F	68	72	68	26	34	30

What is the average marks of students in Physics, Chemistry, and Math?

- (A) 212.6
- (B) 214.5
- (C) 213.7
- (D) 210.4

4.) Study the given table carefully and answer the question that follows:

The following table gives the percentage of marks obtained by 6 students in 6 different subjects in an examination.

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F	68	72	68	26	34	30

Which student obtained maximum marks?

- (A) A
- (B) B
- (C) C
- (D) D

5.) Study the given table carefully and answer the question that follows:

The following table gives the percentage of marks obtained by 6 students in 6 different subjects in an examination.

Note: The number in the bracket gives the maximum marks in each subject.

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Find out the number of students who obtained more than or equal to 60% marks in all subjects?

- (A) 4
- (B) 3
- (C) 2
- (D) 1

6.) The theory Zone of Proximal Development was proposed by:

- (A) Piaget
- (B) Freud
- (C) Vygotsky
- (D) Bloom

7.) In libraries, the process of digitization began with services in the following order:

- A. Periodicals and large reference works
- B. Cataloguing services
- C. Periodical indexing and abstracting services
- D. Book publishing

Choose the correct answer from the options given below:

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

8.) Given below are two statements:

Statement I: Short-term memory encompasses encoding and short-term storage and manipulation.

Statement II: Short-term memory has a limited capacity.

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

9.) Which tools will you use to prepare schedules and class time tables?

- A. Microsoft Outlook
- B. Trello
- C. Google Calendar
- D. Tally
- E. Koha

Choose the correct answer from the options given below:

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

10.) Match List I with List II

List I

Model of Teaching

- A. Positive interdependence
- B. Structured inquiry
- C. Group investigation
- D. Role playing

List II

Developer

- I. Robert Slavin
- II. Fannie Shaftel
- III. Roger Johnson
- IV. John Dewey

Choose the correct answer from the options given below:

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

11.) Which one of the following is a non-parametric statistic?

- (A) F- statistic
- (B) t - statistic
- (C) Pearson's correlation
- (D) Spearman's correlation

12.) Given below are two statements:

Statement I: Use of multivariate statistics in social research has increased due to the availability of statistical software.

Statement II: Multivariate statistics are easier to comprehend as compared to the bi-variate statistics.

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

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

Assertion A: The value of correlation coefficient is in the range of -1 to +1.

Reason R: Correlation between two variables doesn't help in predicting the value of a variable even if we know the value of another variable.

In 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

14.) Focus groups as a technique is especially valuable in which of the following scenarios?

- A. When the researcher has perfect clarity about the research.
- B. For obtaining general background about the topic or issue.
- C. For interpreting previously obtained quantitative results.
- D. When the researcher is interested in establishing a causal relationship between two variables.

E. For generating a level of understanding about influences in the participants' world.

Choose the correct answer from the options given below:

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

15.) Match List I with List II

List I

Statistical Terms

- A. Nominal
- B. Ordinal
- C. Mean
- D. Variance

List II

Description

- I. Spread in values of data
- II. Expected value
- III. Ranking
- IV. Categorization

Choose the correct answer from the options given below:

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

16.) In non-verbal communication, 'Chronemics' refers to:

- (A) Time
- (B) Place
- (C) Space
- (D) Person

17.) In communication, semantic barrier refers to:

- (A) Denotative meaning
- (B) Varied connotations
- (C) Truth
- (D) Singular meaning

18.) A leave application from a clerk to the principal of the institution, is an example of:

- (A) Downward communication
- (B) Upward communication
- (C) Horizontal communication
- (D) General communication

19.) In which one of the following types of communication, the client initiates a transaction by requesting information from a server?

- (A) Education Technology
- (B) Pull Technology

- (C) Ancient Technology
- (D) Push Technology

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

Assertion A: Being judgemental on the part of a teacher is a barrier to communication.

Reason R: For effective learning outcomes, the teacher should expose the ignorance of students.

In 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

21.) In the series 358, 364, 370, \_\_\_\_, what will be the 12<sup>th</sup> term?

- (A) 420
- (B) 424
- (C) 428
- (D) 432

22.) Given below are two statements:

Statement I: An item is sold for ₹145 at a loss of 20%. The cost price of the item is ₹185.

Statement II: The average of first 30 natural numbers is 15.5.

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

23.) Consider the following fractions:

A.  $\frac{11}{17}$

B.  $\frac{5}{6}$

C.  $\frac{2}{3}$

D.  $\frac{4}{11}$

E.  $\frac{6}{11}$

Choose the correct answer from the options given below

- (A)  $D < E < A < C < B$
- (B)  $D < A < E < B < C$
- (C)  $D < B < C < E < A$
- (D)  $A < D < C < B < E$

24.) The angle made by the minute hand of a clock while moving from 3:45 pm to 6pm is:

- (A)  $540^\circ$
- (B)  $740^\circ$
- (C)  $810^\circ$
- (D)  $510^\circ$

25.) Four bells begin to toll together and then toll at intervals of 3, 5, 7 and 10 seconds respectively. They will toll together next after:

- (A) 840 seconds
- (B) 480 seconds
- (C) 210 seconds
- (D) 240 seconds

26.) Which of the following statements correctly apply to inductive arguments?

- A. They are neither conclusively valid nor invalid.
- B. Adding new premises makes no difference to the argument.
- C. Adding new premises may strengthen/weaken the argument.
- D. Conclusion follows from premises with absolute necessity.

Choose the correct answer from the options given below:

- (A) A and D only
- (B) A and C only
- (C) B and D only
- (D) A and B only

27.) Match List I with List II

List I

In Square of opposition

- A. If 'No stars are Dull' is True
- B. If 'some flowers are fragrant' is True
- C. If 'All sweets are sugary' is True
- D. If 'some animals are not mammals' is True

List II

Resultant propositions

- I. 'E' and 'I' are Undetermined
- II. 'E' is False and 'I' is True
- III. 'A' and 'O' are Undetermined
- IV. 'A' is False; 'O' is True

Choose the correct answer from the options given below:

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

28.) Identify the fallacy committed in the argument.

All men who understand women are potentially perfect husbands.

All potentially perfect husbands are men of infinite patience.

Therefore, some men of infinite patience are men who understand women.

- (A) Fallacy of Illicit Major
- (B) Fallacy of Illicit Minor
- (C) Existential fallacy
- (D) Fallacy of Undistributed Middle

29.) In the Nyāya system, what is an inference called when it is based in its middle term being only positively related to the major term?

- (A) Kevatarvayi
- (B) Kevala-vyatireki
- (C) Anvaya-vyatireki
- (D) Vyatirekāvayai

30.) Given below are two statements:

Statement I: In the Nyāya system of inference, the major term (sādhya) can exist without the middle term (hetu).

Statement II: According to the Nyāya system, the middle term (hetu) cannot exist without the major term (sādhya).

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

31.) Bluetooth is :

- (A) Wireless LAN protocol
- (B) Short-range data transmission protocol
- (C) Interoperability protocol
- (D) Peer-to-peer networking protocol

32.) What is Pixel density?

- (A) Number of pixels per column and per row on a monitor
- (B) Number of pixels per square centimetre
- (C) Number of pixels that make up an image
- (D) Number of horizontal and vertical pixels that make up a screen display

33.) Given below are two statements: regarding the JPEG file (Joint Photographic Experts Group) :

Statement I: JPEG files use a lossy format file compression method.

Statement II: JPEG is used to store photographs as a reduced file size.

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

34.) Which of the following statements are correct regarding Random Access Memory (RAM)?

- A. It is an internal chip where data is temporarily stored
- B. It stores the part of operating system currently in use
- C. It is used to store the BIOS
- D. It is non-volatile memory

Choose the correct answer from the options given below:

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

35.) Match List I with List II

List I

Type of Software



- A. Word Processor
- B. Database
- C. Operating system
- D. Utilities

List II

Example

- I. Mac
- II. Open-office
- III. Oracle
- IV. Anti-virus

Choose the correct answer from the options given below:

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

36.) India's national-level forest policy dates back to :

- (A) 1894
- (B) 1952
- (C) 1988
- (D) 1994

37.) Given below are two statements:

Statement I: Amorphous silicon is highly light absorbing material.

Statement II: Amorphous silicon is not suitable material for solar cell development due to its non-crystal properties

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

38.) Which one of the following has, both positive and negative radiative forcing in the climate?

- (A)  $CO_2$
- (B)  $CH_4$
- (C)  $NO_2$
- (D)  $O_3$

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

Assertion A: Lockdown in 2020 in India was imposed under the Disaster Management Act

Reason R: COVID 19 is the first pan-India biological disaster being handled under the Disaster Management Act

In 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

40.) The faintest detectable noise by a healthy human ear is of:

- (A) 0 dB
- (B) 1 dB
- (C) 10 dB
- (D) 20 dB

41.) The time gap between two sessions of the Parliament should not exceed:

- (A) 3 months
- (B) 5 months
- (C) 6 months
- (D) 12 months

42.) U in AYUSH stands for :

- (A) Urban
- (B) Universal
- (C) University
- (D) Unani

43.) Inter University Board set up in 1928 to promote University activities by sharing information and co-operation in the field of education, culture, sports and allied areas is now known as :

- (A) Association of Indian Universities
- (B) Central Board of Secondary Educators
- (C) Central Advisory Board on Education
- (D) University Grants Commission

44.) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R  
Assertion A: Government is preparing high quality bilingual textbooks and teaching-learning material for science and mathematics to enable students to think and speak about the two subjects in their home-language/mother tongue and in English.

Reason R: Government should promote all regional languages

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

45.) Given below are two statements :

Statement I: Values are an enduring belief about the way things should be done or about the ends we desire

Statement II: The values we form are influenced by our circumstances families, friends, age, gender, environment, tradition and culture

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

46.) Read the given passage and answer the following question.

There are three main groups of oils: animal, vegetable, and mineral. Great quantities of animal oil come from whales, those enormous creatures of the sea which are the largest remaining animals in the world. To protect the whale from the cold of the Arctic seas, nature has provided it with a thick covering of fat

called blubber. When the whale is killed, the blubber is stripped off and boiled down. It produces a great quantity of oil which can be made into food for human consumption. A few other creatures yield oil, but none so much as the whale. The livers of the cod and halibut liver oil are given to sick children and other invalids who need certain vitamins.

Vegetable's oil has been known from antiquity. No household can get on without it, for it is used in cooking. Perfumes may be made from the oils of certain flowers. Soaps are made from vegetable and animal oils.

To the ordinary man, one kind of oil may be as important as another. But when the politician or the engineer refers to oil s/he almost always means mineral oil, the oil that drives tanks, aeroplanes and warships, motor-cars and diesel locomotives; the oil that is used to lubricate all kinds of machinery. This is the oil that has changed the life of the common man. When it is refined into petrol, it is used to drive the internal combustion engine. To it, we owe the existence of motor car, which has replaced the private carriage drawn by the horse. To it, we owe the possibility of flying. It has changed the methods of warfare on land, sea and air. This kind of oil comes out of the earth. Because it burns well, it is used as fuel and in some ways, it is superior to coal in this respect. Many big ships now burn oil instead of coal. Because it burns brightly, it is used for illumination; countless homes are still illuminated with oil-burning lamps. Because it is very slippery, it is used for lubrication.

Vegetable oil is/was:

- (A) Known to people since ages
- (B) Unknown in ancient times
- (C) Known only in the old days
- (D) Known only to old people

47.) Read the given passage and answer the following question.

There are three main groups of oils: animal, vegetable, and mineral. Great quantities of animal oil come from whales, those enormous creatures of the sea which are the largest remaining animals in the world. To protect the whale from the cold of the Arctic seas, nature has provided it with a thick covering of fat called blubber. When the whale is killed, the blubber is stripped off and boiled down. It produces a great quantity of oil which can be made into food for human consumption. A few other creatures yield oil, but none so much as the whale. The livers of the cod and halibut liver oil are given to sick children and other invalids who need certain vitamins.

Vegetable's oil has been known from antiquity. No household can get on without it, for it is used in cooking. Perfumes may be made from the oils of certain flowers. Soaps are made from vegetable and animal oils.

To the ordinary man, one kind of oil may be as important as another. But when the politician or the engineer refers to oil s/he almost always means mineral oil, the oil that drives tanks, aeroplanes and warships, motor-cars and diesel locomotives; the oil that is used to lubricate all kinds of machinery. This is the oil that has changed the life of the common man. When it is refined into petrol, it is used to drive the internal combustion engine. To it, we owe the existence of motor car, which has replaced the private carriage drawn by the horse. To it, we owe the possibility of flying. It has changed the methods of warfare on land, sea and air. This kind of oil comes out of the earth. Because it burns well, it is used as fuel and in some ways, it is superior to coal in this respect. Many big ships now burn oil instead of coal. Because it burns brightly, it is used for illumination; countless homes are still illuminated with oil-burning lamps. Because it is very slippery, it is used for lubrication.

According to the author, whales are:

- (A) The largest animals that have ever lived in the world
- (B) The largest animal living in contemporary times
- (C) The largest reptile
- (D) The largest animal living in Caspian Sea

48.) Read the given passage and answer the following question.

There are three main groups of oils: animal, vegetable, and mineral. Great quantities of animal oil come from whales, those enormous creatures of the sea which are the largest remaining animals in the world. To protect the whale from the cold of the Arctic seas, nature has provided it with a thick covering of fat called blubber. When the whale is killed, the blubber is stripped off and boiled down. It produces a great quantity of oil which can be made into food for human consumption. A few other creatures yield oil, but none so much as the whale. The livers of the cod and halibut liver oil are given to sick children and other invalids who need certain vitamins.

Vegetable's oil has been known from antiquity. No household can get on without it, for it is used in cooking. Perfumes may be made from the oils of certain flowers. Soaps are made from vegetable and animal oils.

To the ordinary man, one kind of oil may be as important as another. But when the politician or the engineer refers to oil s/he almost always means mineral oil, the oil that drives tanks, aeroplanes and warships, motor-cars and diesel locomotives; the oil that is used to lubricate all kinds of machinery. This is the oil that has changed the life of the common man. When it is refined into petrol, it is used to drive the internal combustion engine. To it, we owe the existence of motor car, which has replaced the private carriage drawn by the horse. To it, we owe the possibility of flying. It has changed the methods of warfare on land, sea and air. This kind of oil comes out of the earth. Because it burns well, it is used as fuel and in some ways, it is superior to coal in this respect. Many big ships now burn oil instead of coal. Because it burns brightly, it is used for illumination; countless homes are still illuminated with oil-burning lamps. Because it is very slippery, it is used for lubrication.

Which one of the following is NOT one of the three main purposes for which mineral oil is used?

- (A) For lighting
- (B) As fuel for motors
- (C) As an economic power
- (D) As lubricant

49.) Read the given passage and answer the following question.

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Vegetable's oil has been known from antiquity. No household can get on without it, for it is used in cooking. Perfumes may be made from the oils of certain flowers. Soaps are made from vegetable and animal oils.

To the ordinary man, one kind of oil may be as important as another. But when the politician or the engineer refers to oil s/he almost always means mineral oil, the oil that drives tanks, aeroplanes and warships, motor-cars and diesel locomotives; the oil that is used to lubricate all kinds of machinery. This is the oil that has changed the life of the common man. When it is refined into petrol, it is used to drive the internal combustion engine. To it, we owe the existence of motor car, which has replaced the private carriage drawn by the horse. To it, we owe the possibility of flying. It has changed the methods of warfare on land, sea and air. This kind of oil comes out of the earth. Because it burns well, it is used as fuel and in some ways, it is superior to coal in this respect. Many big ships now burn oil instead of coal. Because it burns brightly, it is used for illumination; countless homes are still illuminated with oil-burning lamps. Because it is very slippery, it is used for lubrication.

"No household can get on without vegetable oil, for it is used in cooking", means:

- (A) Households and vegetable oil cannot get on with each other
- (B) Households can manage without oil
- (C) Oil is an essential ingredient in cooking, so households need it
- (D) Households can get on with cooking without vegetable oil

50.) Read the given passage and answer the following question.

There are three main groups of oils: animal, vegetable, and mineral. Great quantities of animal oil come from whales, those enormous creatures of the sea which are the largest remaining animals in the world. To protect the whale from the cold of the Arctic seas, nature has provided it with a thick covering of fat called blubber. When the whale is killed, the blubber is stripped off and boiled down. It produces a great quantity of oil which can be made into food for human consumption. A few other creatures yield oil, but none so much as the whale. The livers of the cod and halibut liver oil are given to sick children and other invalids who need certain vitamins.

Vegetable's oil has been known from antiquity. No household can get on without it, for it is used in cooking. Perfumes may be made from the oils of certain flowers. Soaps are made from vegetable and animal oils.

To the ordinary man, one kind of oil may be as important as another. But when the politician or the engineer refers to oil s/he almost always means mineral oil, the oil that drives tanks, aeroplanes and warships, motor-cars and diesel locomotives; the oil that is used to lubricate all kinds of machinery. This is the oil that has changed the life of the common man. When it is refined into petrol, it is used to drive the internal combustion engine. To it, we owe the existence of motor car, which has replaced the private carriage drawn by the horse. To it, we owe the possibility of flying. It has changed the methods of warfare on land, sea and air. This kind of oil comes out of the earth. Because it burns well, it is used as fuel and in some ways, it is superior to coal in this respect. Many big ships now burn oil instead of coal. Because it burns brightly, it is used for illumination; countless homes are still illuminated with oil-burning lamps. Because it is very slippery, it is used for lubrication.

Oil-burning lamps:

- (A) Are used in more and more homes nowadays
- (B) Are not used at all
- (C) Burn more brightly than any other kind of lamp
- (D) Are used by a large number of people, although not so many as previously