

UGC NET June 2020 1st October Evening Shift

Study the given data in the table and answer the questions that follow

Consider the following table that presents the results of a competitive MCQ examination, where candidates were tested in their knowledge of Physics, Chemistry, Mathematics and Computer Science. The table contains the data on the number of candidates securing marks within the specified range of marks. For example, [81-100] specifies the range of marks as ≥ 81 and ≤ 100 . (UGC NET 1st Oct 2020 Evening paper)

Marks-wise Distribution of Candidates

Subject	Total Marks	81-100	71-80	61-70	51-60	41-50	31-40	21-30	11-20	0-10
Physics	100	0	1	4	85	730	4205	10885	9170	1920
Chemistry	100	2	5	875	3350	6775	7778	5065	1800	1375
Mathematics	100	0	0	0	6	199	3400	15045	6975	1375
Computer Science	50	0	0	0	0	220	2145	10140	11858	2637

1.) Assuming that there are no absentees, what is the total number of candidates who appeared for the examination?

- (A) More than 50000
- (B) 25635
- (C) 26973
- (D) 27000

2.) What is the ratio of the total number of candidates who scored more than 50 marks in Physics to those who scored more than 40 marks in Mathematics?

- (A) 17:49
- (B) 18:41
- (C) 43:61
- (D) 85:199

3.) If securing over 40% marks is the qualifying criteria for each subject, then the ratio of the number of candidates who qualify in Mathematics compared to those who qualify in Computer science is

- (A) 15:42
- (B) 1:2
- (C) 56:1
- (D) 1:61

4.) If securing over 60% marks is the qualifying criteria for the subject of Computer science, then what is the approximate percentage of qualified candidates in the subject of computer science (Assume no absentees)?

- (A) 12.65%
- (B) 8.76%
- (C) 8.65%
- (D) 0%

5.) If securing over 60% marks is the qualifying criteria for each of the three subjects of Physics, Chemistry and Mathematics, then the number of candidates who have qualifies in all three subject is

- (A) 0
- (B) 90
- (C) 6
- (D) 5

6.) The view that teaching-learning situations may be characterized to fall on a continuum ranging from memory level to reflective level was advanced by (UGC NET 1st Oct 2020 Evening paper)

- (A) Kurt Lewin
- (B) Stephen M. Corey
- (C) Morris L. Bigge
- (D) B.F. Skinner

7.) Which committee/commission recommended the choice-based credit system in higher education? (UGC NET 1st Oct 2020 Evening paper)

- (A) Administrative and Academic Reform Committee of the UGC
- (B) Justice Verma Commission on Teacher Education
- (C) Ramamurti Committee on Higher Education
- (D) Chattopadhyay Committee on Teacher Education

8.) A teacher in a particular college assigns percentile ranks to indicate his/her students' performance in the unit tests conducted. What type of assessment procedure will it be called? (UGC NET 1st Oct 2020 Evening paper)

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

9.) Which of the following support material in learning use the procedures of programmed instructional technology based on Skinner and Crowder's principles? (UGC NET 1st Oct 2020 Evening paper)

- a. Modular instructional material
- b. Branching Programmes based material
- c. Linear programmes based materials
- d. Specifically prepared supplement programme based materials
- e. Lecture outlines with components of 'to reflect' and 'to do'

Choose the correct answer from the options given below:

- (A) b and c only
- (B) a and c only
- (C) c and d only
- (D) d and e only

10.) Identify the features of understanding level teaching from the following (UGC NET 1st Oct 2020 Evening paper)

- a. The teacher takes the initiative in organizing subject matter, in structuring the various units and in controlling the practice taken up by students
- b. It is basically devoted to helping students in seeing of relationships and tool use of a fact.
- c. It is directed at problem raising and problem-solving in a collaborative manner
- d. It is aimed at the conceptualization of ideas and facts

e. The purpose is to promote autonomy in the learning process through self-regulation.

Choose the correct answer from the options given below:

- (A) a and b only
- (B) b and d only
- (C) c and d only
- (D) d and e only

11.) A university teacher administers a self-made test for summative evaluation of his/her students. The distribution of scores of students is found to be positively skewed. What inference he/she should make about the difficulty level of this test? (UGC NET 1st Oct 2020 Evening paper)

- (A) The test is much too easy for students
- (B) The test is difficult for students
- (C) The test is quite interesting to students
- (D) The test is favoring those students who are low rankers

12.) A college teacher intends to find out as to what extent students involvement in learning of boys and girls from rural/urban areas is attributable to the socio-economic status of the family from which they hail. What will be designated as an independent variable in this research project? (UGC NET 1st Oct 2020 Evening paper)

- (A) Student involvement in learning
- (B) Socio-economic status of the family
- (C) Rural/urban areas
- (D) Gender (boys and girls)

13.) A research scholar finds through statistical analysis that the value of 't' is significant. What decision is warranted on the basis of this hypothesis? (UGC NET 1st Oct 2020 Evening paper)

- a) The null hypothesis should be rejected
- b) The research hypothesis should be accepted
- c) The null hypothesis should be accepted
- d) The research hypothesis should be rejected
- e) No decision is warranted in respect of research hypothesis

Choose the correct answer from the options given below:

- (A) a and b only
- (B) b and c only
- (C) c and d only
- (D) d and e only

14.) Which of the following are the characteristics of a 'good sample' in research? (UGC NET 1st Oct 2020 Evening paper)

- a. Readily accessible
- b. Representative of population characteristics
- c. Serving the personal considerations of the research
- d. Precision and accuracy in approximating the parameters
- e. Freedom from bias

Choose the correct answer from the options given below:

- (A) a, b and c only
- (B) b, d and e only
- (C) b, c and d only
- (D) c, d and e only

15.) Given below are two statements (UGC NET 1st Oct 2020 Evening paper)

Statement I: In research, formulation of policies for admission tests/screening cannot neglect the constitutional provisions.

Statement II: While awarding research degrees the minorities quota have to be protected in the interest of equity.

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

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

16.) Reframing in communication means (UGC NET 1st Oct 2020 Evening paper)

- (A) Employment of new metaphors
- (B) Rejecting the conventional expressions
- (C) Opting for hyperbole
- (D) Preferring oppositional binaries

17.) Which of the following contributes for effective cross-cultural communication? (UGC NET 1st Oct 2020 Evening paper)

- a. Quick flow of words
- b. Use of foreign words
- c. Selection of simple words
- d. Taking turns to speak
- e. Maintenance of etiquette

Choose the correct answer from the options given below:

- (A) a, b and c only
- (B) b, c and d only
- (C) a, d and e only
- (D) c, d and e only

18.) Given below are two statements (UGC NET 1st Oct 2020 Evening paper)

Statement I: Cross communication promotes teamwork in the classroom

Statement II: Exactness of communication in a cross-cultural setting is flexible and responsive.

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

19.) The emergence of media of communication, in chronological sequence is (UGC NET 1st Oct 2020 Evening paper)

- a. Radio
- b. Newspaper
- c. Film
- d. Television
- e. Internet

Choose the correct answer from the options given below

- (A) a, c, d, e, b
- (B) b, c, a, d, e

- (C) c, d, e, a, b
(D) d, e, c, b, a

20.) Match List I with List II (UGC NET 1st Oct 2020 Evening paper)

List I	List II
a. Prayer in silence	i. Vertical communication
b. Teacher talking to students outside the classroom	ii. Grapevine
c. The CEO of a company issues a circular to his subordinates	iii. Intra-personal communication
d. Rumour mongering among employees of an organization	iv. Group communication

Choose the correct answer from the options given below:

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

21.) The salary of Hamid was reduced by 10%. By what per cent should be raised to bring it back to his original salary? (UGC NET 1st Oct 2020 Evening paper)

- (A) 10%
(B) 11%
(C) $11\frac{1}{7}\%$
(D) $11\frac{1}{9}\%$

22.) Consider the following fractions (UGC NET 1st Oct 2020 Evening paper)

- a. $\frac{6}{11}$
b. $\frac{4}{9}$
c. $\frac{3}{8}$
d. $\frac{2}{5}$
e. $\frac{5}{13}$

For the above fractions, which one of the following is in the correct descending order? Choose the correct answer from the options given below:

- (A) $a > b > d > e > c$
(B) $a > d > b > e > c$
(C) $a > b > d > c > e$
(D) $a > d > b > c > e$

23.) The time is 2:15 PM. What is the angle between the hour and the minute hand? (UGC NET 1st Oct 2020 Evening paper)

- (A) $20\frac{1}{2}^\circ$
- (B) 30°
- (C) $22\frac{1}{2}^\circ$
- (D) 25°

24.) Given below are two statements (UGC NET 1st Oct 2020 Evening paper)

Statement I: The mean is the numerical average and is found by adding up all the values and dividing the sum by the number of values

Statement II: The mean of the following wages is 16000

- i) 12000
- ii) 10000
- iii) 23000
- iv) 15000

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

25.) If January 1, 2007 was a Monday, then January 1, 2008 is a: (UGC NET 1st Oct 2020 Evening paper)

- (A) Sunday
- (B) Monday
- (C) Tuesday
- (D) Wednesday

26.) Next letter in the logical pattern O, T, T, F, F, S, S, E, N, ____ is (UGC NET 1st Oct 2020 Evening paper)

- (A) N
- (B) E
- (C) F
- (D) T

27.) A's father has five sons. Names of four sons are M, O, Q and S. What is the name of his fifth son? (UGC NET 1st Oct 2020 Evening paper)

- (A) T
- (B) U
- (C) A
- (D) K

28.) Choose the correct answer from the options given below

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

29.) Today is what day, if, day before yesterday it was 13th of the present month and 3rd day of the last month, with 31 days, was a Tuesday? (UGC NET 1st Oct 2020 Evening paper)

- (A) Sunday
- (B) Tuesday
- (C) Wednesday
- (D) Friday

30.) Given below are two statements (UGC NET 1st Oct 2020 Evening paper)

Statement I: If A, B and C are standing in a circle looking at the center and B is just left of A, then C is just right of B

Statement II: If X, Y and Z are standing in a circle looking at the center and X is just right of Y, then Z is just right of X

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.) Consider the following sizes of computer memory. Choose the correct ascending order (UGC NET 1st Oct 2020 Evening paper)

- a. MB
- b. GB
- c. KB
- d. TB

Choose the correct answer from the options given below

- (A) b, d, a, c
- (B) d, b, a, c
- (C) a, b, c, d
- (D) c, a, b, d

32.) Given below are two statements (UGC NET 1st Oct 2020 Evening paper)

Statement I: Printed output from a computer system is called soft copy

Statement II: RAM is a read/write memory

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 and Statement II is false
- (D) Statement I is incorrect and Statement II is true

33.) Which of the following is NOT used to avail internet connectivity? (UGC NET 1st Oct 2020 Evening paper)

- (A) Wi-Fi
- (B) 3G
- (C) Scanner
- (D) 4G

34.) Match List I with List II (UGC NET 1st Oct 2020 Evening paper)

List I	List II
a. Input device	i. Chrome

b. Output device	ii. MS-office
c. Software	iii. Mouse
d. Web browser	iv. Monitor

Choose the correct answer from the options given below:

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

35.) Radha receives an email claiming that her credit card account is about to be suspended unless she emails her credit card details and personal identification number (PIN) immediately. What is this an example of? (UGC NET 1st Oct 2020 Evening paper)

- (A) Spamming
- (B) Phishing
- (C) Virus Signing
- (D) Scanning

36.) To put the world on a least cost pathway to limiting global warming to 2°C above the pre-industrial level, global greenhouse gas emission by 2030 with reference to 2017, require reduction to the extent of (UGC NET 1st Oct 2020 Evening paper)

- (A) 25%
- (B) 15%
- (C) 10%
- (D) 20%

37.) Identify the correct sequence in decreasing order of the carbon per unit mass of the following carbon reservoirs in the aquatic environment of oceans (UGC NET 1st Oct 2020 Evening paper)

- a. Sediments
- b. Living organisms
- c. Dissolved organic matter
- d. Dissolved inorganic matter

Choose the correct answer from the options given below

- (A) d, a, b, c
- (B) a, d, c, b
- (C) b, c, a, d
- (D) c, b, a, d

38.) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R (UGC NET 1st Oct 2020 Evening paper)

Assertion A: Hydrofluorocarbons (HFCs) need to be phased out to protect the Ozone layer

Reason R: HFC's have a high global warming potential

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 B is not correct

(D) A is not correct but R is correct

39.) Match List I with List II (UGC NET 1st Oct 2020 Evening paper)

List I	List II
International Agreements	Provisions
a. Kyoto Protocol	i. Convention on Biodiversity
b. Paris Agreement	ii. Affordable, reliable clean energy
c. Rio Summit	iii. Nationally Determined Contributions
d. International Solar Alliance	iv. Joint implementation

Choose the correct answer from the options given below:

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

40.) Mitigation measure to cope with floods include (UGC NET 1st Oct 2020 Evening paper)

- a. Elevating or protecting electrical service panels
- b. Upsizing culverts to better handle flood surges
- c. Protecting facilities with barriers and sandbags
- d. Removing trees and debris from the flood plains
- e. Relocating equipment outside the flood plain

Choose the correct answer from the options given below:

- (A) a, c, d and e only
- (B) a, b, c and e only
- (C) a, b, c, d and e
- (D) b, c, d and e only

41.) Given below are two statements (UGC NET 1st Oct 2020 Evening paper)

Statement I: An institution in the field of higher education seeking deemed to be university status must have been in existence for at least 10 years

Statement II: A deemed to be university must have at least five post-graduate departments

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

42.) According to National Skills Qualifications Framework (NSQF), the level 8 competency is equivalent to (UGC NET 1st Oct 2020 Evening paper)

- (A) Post graduate degree
- (B) Under graduate degree
- (C) Under graduate (honors) degree
- (D) Doctoral degree

43.) MHRD's scheme 'VIDWAN', is aimed at (UGC NET 1st Oct 2020 Evening paper)

- (A) Creating a database and national research network

- (B) Making available e-resources
- (C) Promoting entrepreneurship among faculty
- (D) Awarding national professorship to a faculty

44.) In ancient India, the eligibility criterion in respect of age for students seeking admission to Takshhshila University was set at (UGC NET 1st Oct 2020 Evening paper)

- (A) 22 years
- (B) 20 years
- (C) 18 years
- (D) 19 years

45.) Kothari Commission had recommended a certain percentage of national income to be invested in education. What was that percentage? (UGC NET 1st Oct 2020 Evening paper)

- (A) 10%
- (B) 8%
- (C) 6%
- (D) 5%

Read the given passage carefully and answer the questions that follow: (UGC NET 1st Oct 2020 Evening paper)

To be swayed by emotions can surely be a problem, but otherwise, emotions are such a wealth within us that they are rightly called a source of human energy, information and influence. When we understand them well and handle them wisely, they can help us mend fences or move mountains. They touch our hearts and a rich life is necessarily one that is centered in the heart. To love and be loved is the greatest privilege of life, said Chinmaya, the popular teacher of the Vedanta.

To put in efforts towards understanding our own and others' emotions leads to an enhancement of our Emotional Quotient (EQ). By broadening our outlook, we can discard false judgments and this leads to the rise of healthy emotions within us. Just to be aware of the factors that activate particular emotions that arise in us, paves the way to a better handling of these forces at work. We need to train ourselves to be rightly assertive in the face of injustice or some unfair treatment meted out to us. This means that we rise above all passivity that is inaction and at the same time avoid aggressive behavior that could be harsh or violent. Even skills that we develop to handle stress fall under emotional maturity for a lot of stress is the result of certain negative emotions making situations look darker than what they actually are. Developing empathy is another aspect of emotional growth, where we "emotionally read" others and thus relate with them very accurately rather than in some imagined way.

46.) Human emotions are

- a. Neither good nor bad
- b. Source of human energy
- c. Passive in nature
- d. Beneficial when handled wisely

Choose the correct answer from the options given below

- (A) a and b only
- (B) b and c only
- (C) c and d only
- (D) b and d only

47.) Used properly, emotions lead us to

- (A) Accumulate wealth
- (B) A rich and joyous life

- (C) Being judgmental
- (D) Relate with others in some imagined way

48.) By a clear assessment of emotional factors, we can become

- (A) Highly aggressive
- (B) Rigidly judicious
- (C) Passively righteous
- (D) Better handlers of negativity

49.) Emotional maturity

- (A) Handles negative emotions effectively
- (B) Makes a person passive
- (C) Makes life darker than what it is
- (D) May give rise to aggressive behavior against injustice

50.) Developing empathy makes a person

- (A) Understand himself
- (B) Relate with others emotionally
- (C) Cope with stress
- (D) Relate to others in some imagined way