

Time: One Hour

Max. Marks: 50

## Instructions

- Solve any 25 questions from Q.1 to Q.30
- Solve any 25 questions from Q.31 to Q.60

- 1 The Word of statistics is derived from  
(A)Statistics (B)Statistic (C)Statistical (D)All of these
- 2 The nature of statistics is  
(A)Arts & science (B)social & historical (C)geographical & social (D)a & b
- 3 Data collected on religion from the census report are  
(A)Primary data (B)secondary data (C)sample data (D)a & b
- 4 Interview is  
(A)Secondary data (B)primary data (C)published data (D)declared data
- 5 Observation is a method of collecting data.  
(A>Selective data (B)secondary data (C)primary data (D)elective data
- 6 If data is obtained through some sources, it is called as  
(A)primary data (B)secondary data (C)sampling data (D)popular data
- 7 which of the following is the characteristics of a data  
(A)Aggregate of fact (B)numerical expressed (C)affected by various cause (D)all of these
- 8 which of the following is not the limitation of statistics?  
(A)Homogeneous statistical data (B)analysis of data (C)presentation of means (D)Statistics law is true in the long run and on average.
- 9 which of the following is not a characteristic of data.  
(A)Statistics are collected by enumeration (B)statistics are placed in relation to each (C)Human being (D)comparative study.
- 10 which of the following is not the part of the subject matter of Business Statistics.  
(A)Appointment (B)presentation of data (C)analysis of data (D)interpretation of data
- 11 Schedules help us in collection  
(A)Secondary data (B)primary data (C)quantitative data (D)none of these
- 12 the statistical data in the original form before any statistics technique are used to refine, Process or summaries is called.  
(A)Secondary data (B)row or primary data (C)published data (D)finished data
- 13 Median is.....  
(A)Middle most value (B)lower value (C)highest value (D)a & b
- 14 Cumulative frequency is of  
(A)One type (B)Two type (C)Three type (D)Four type
- 15 Following is the measures of central tendency  
(A)Mode (B)skewness (C)co-efficient (D)standard deviation
- 16 the mid values of the class be calculated with the help of  
(A) $M.V. = L1+L2 /2$  (B) $M.V. = L1*L2 /2$  (C) $M.V. = L1-L2/2$  (D) $M.V.= L2-L1/2$
- 17 the median of the numbers 21, 49,37,88,74 & 55 is  
(A)55 (B)52 (C)38 (D)49
- 18 The mean of the numbers 35,22,21,29 & 23 is  
(A)20 (B)27 (C)24 (D)26
- 19 The mode of the numbers 15, 17, 18, 10, & 12 is  
(A)12 (B)18 (C)15 (D)14
- 20 the difference between the largest value and the smallest value of the variable is  
(A)Mean (B)Mode (C)Range (D)Mean deviation
- 21 Total relative frequency is always  
(A)One (B)Two (C)Quarter (D)Half
- 22 The second quarterly (Q2) are called  
(A)Mode (B)Mean (C)Median (D)Quartile
- 23 the quarterly deviation of 22, 17, 25,20,29,27, & 35 will be  
(A)5.5 (B)6 (C)8 (D)4.5
- 24 the quarterly Third (Q3) of 6,8,10,14,15,20 & 25 will be

## Examination October 2020

- (A)14 (B)10 (C)25 (D)20
- 25 The measure of the degree of scatter of data from the central value is...
- (A)Dispersion (B)skewness (C)average (D)standard deviation
- 26 C.V. is calculated by....
- (A) $(S.D.)^2$  (B) $S.D./100$  (C) $S.D./a * 100$  (D)none of these
- 27 Standard deviation is the best measurement of...
- (A)Central tendency (B)dispersion (C)skewness (D)none of these
- 28 which of the following is an important measure sought for describing the character of Variability in data.
- (A)Dispersion (B)correlation (C)skewness (D)variance
- 29 which of the following is the characteristic of good measure of dispersion
- (A)It should be simple to understand (B)it should be easy to compute (C)It should be rigidly defined (D)all of these
- 30 the degree to which numerical data tend to spread about an average value is called
- (A)Variation (B)dispersion (C)skewness (D)a & b
- 31 which of the following is the measures of dispersion are in common use
- (A)Ranges (B)mean (C)standard deviation (D)all of these
- 32 Coefficient of M.D. by mean =  $M.D. / \dots$
- (A)Mean (B)median (C)mode (D)none of these
- 33 Coefficient of variation by median =  $M.D. / \text{median} * \dots$
- (A)50 (B)100 (C)150 (D)200
- 34 the mean deviation by mean of the numbers 10, 15, 18, 20, 20, 22, 23, 25, 27, & 30 is
- (A)5.5 (B)5.4 (C)4.4 (D)4.6
- 35 Standard deviation was first used by Karl Pearson in the year
- (A)1878 (B)1893 (C)1862 (D)1852
- 36 the mean of a distribution is 12 and the standard deviation is 4 what is the value of the co-efficient of variation?
- (A)33.33 (B)34.33 (C)33.48 (D)33.52
- 37 A determinant is an arrangement of number in....
- (A)Rows & rows (B)rows & columns (C)columns & columns (D)none of these
- 38 In a third order determinant rows and columns are...
- (A)4 (B)3 (C)2 (D)6
- 39  $D = \begin{vmatrix} 2 & 4 \\ 3 & 1 \end{vmatrix}$
- The value of is
- (A)-10 (B)10 (C)12 (D)14
- 40 If in a determinant rows are changed into
- (A)rows (B)columns (C)vertical (D)none of these
- 41  $D = \begin{vmatrix} 5 & 7 \\ 3 & 8 \end{vmatrix}$
- Find the value of is
- (A)13 (B)18 (C)19 (D)22
- 42 If in a determinant columns are changed into
- (A)Rows (B)vertical (C)columns (D)none of these
- 43  $D = \begin{vmatrix} 3 & 2 \\ 4 & 1 \end{vmatrix}$
- the value of
- (A)5 (B)-5 (C)3 (D)6
- 44  $\begin{vmatrix} 3a & 2b \\ 2a & b \end{vmatrix}$
- the value of the determinant
- (A)-ab (B)ab (C)a\*b (D)a-b
- 45  $\begin{vmatrix} 5 & 2 \\ 6 & 5 \end{vmatrix}$
- value of is

## Examination October 2020

- (A)12 (B)25 (C)13 (D)14
- 46  $\begin{vmatrix} a & b \\ c & d \end{vmatrix}$   
 what is order of determinant  
 (A)Fourth (B)Second (C)Third (D)Sixth
- 47  $\begin{vmatrix} 1 & -2 \\ 3 & 4 \end{vmatrix}$   
 value of is  
 (A)11 (B)10 (C)18 (D)12
- 48 the concept of determinants is developed by Cranmer in the year  
 (A)1780 (B)1753 (C)1750 (D)1760
- 49 Probability can be expressed by.....  
 (A)P (B)O (C)E (D)P1
- 50 Which of the following are applications of probability in?  
 (A)Statistics (B)Economics (C)Industry (D)All of these
- 51 Probability sampling and random sampling are ....  
 (A)Anonymous (B)Different terms (C)Synonymous (D)None of these
- 52 which of the following is the type of events of probability.  
 (A)Certain event (B)Impossible event (C)mutually exclusive event (D)All of these
- 53 If a card is chosen from a standard deck of cards, what is the probability of getting a five or a seven?  
 (A)8/52 (B)1/56 (C)1/59 (D)4/52
- 54 How many ways can 5 red and 4 white balls be drawn from a bag containing 10 red and 8 White balls?  
 (A) ${}^8C_5 \times {}^{10}C_4$  (B) ${}^{10}C_5 \times {}^8C_4$  (C) ${}^{18}C_3$  (D)None of these
- 55 How many ways can 5 men and 3 women be seated in a row so that two women cannot sit side by side?  
 (A)12100 (B)14000 (C)13200 (D)14400
- 56 a bag contains 4 white, 2 black, 3 yellow and 4 red balls, what is the probability of getting a white or red ball at random in a single draw of one ?  
 (A)19% (B)58.3% (C)12% (D)13%
- 57 what is the probability of throwing two fours in two throws of a die?  
 (A)1/36 (B)1/39 (C)1/37 (D)1/41
- 58 what is the probably of getting all the heads in four throws of a coin?  
 (A)1/13 (B)12/13 (C)11/16 (D)1/16
- 59 what will be the probability that one is king and other is queen?  
 (A)2/169, 2/663 (B)1/52, 2/53 (C)1/31, 1/4 (D)1/51, 2/50
- 60 what is the chance of drawing a queen in a draw from a pack of 52 cards?  
 (A)1/9 (B)1/13 (C)1/14 (D)1/12