Statistics

Question 1.
The minimum value o a data is 82 and range is 38, then the maximum value is
(a) 60
(b) 76
(c) 82
(d) 120

Answer: (d) 120

Question 2.
In a grouped frequency distribution, the class intervals are 0-10, 10-20, 20-30, .., then the class width is
(a) 10
(b) 15
(c) 20
(d) 30

Answer: (a) 10

Question 3.
Which of the following variables are discrete?

1. Size of shoes
2. Number of pages in a book
3. Distance travelled by a train
4. Time

(a) 1 and 2
(b) 1 and 4
(c) 1 and 3
(d) 2 and 4

Answer: (a) 1 and 2

Question 4.
Class mark of a class interval U-L is
(a) U+$\frac{L}{2}$
(b) U-$\frac{L}{2}$
(c) U-L
(d) 2(U+L)

Answer: (a) U+$\frac{L}{2}$

Question 5.
Which of the following is not a measure of central tendency?
(a) Standard deviation
(b) Mean
(c) Median
(d) Mode

Answer: (a) Standard deviation

Question 6.
The mode of the given data: 4, 6, 5, 9, 3, 2, 7, 7, 6, 5, 4, 9, 10, 10, 3, 4, 7, 6, 9, 9 is;
(a) 7
(b) 9
(c) 10
(d) 6

Answer: (b) 9

Question 7.
Given the class intervals 1-10, 11-20, 21-30, ___, then 20 is considered in class
(a) 11-30
(b) 11-20
(c) 21-30
(d) 15-25

Answer: (b) 11-20

Question 8.
A student collects information about the number of school going children in a locality consisting

of a hundred households. The data collected by him is
(a) Arrayed data
(b) Primary data
(c) Secondary data
(d) Grouped data

Answer: (b) Primary data

Question 9.
One of the sides of a frequency polygon is
(a) either of the coordinate axes
(b) the x-axis
(c) neither of the coordinate axes
(d) the y-axis

Answer: (b) the x-axis

Question 10.
In order to draw a frequency polygon by using a histogram, which of the following statements is incorrect?
(a) Obtain the mid-points of three class- intervals of highest frequency on Y-axis, one adjacent to the first on its right and one adjacent to the last, on its left.
(b) Obtain the frequency distribution and draw a histogram representing it.
(c) Join these mid-points of the adjacent rectangles of the histogram by dotted line
(d) Obtain the mid points of the upper horizontal side of each rectangle.

Answer: (a) Obtain the mid-points of three class- intervals of highest frequency on Y-axis, one adjacent to the first on its right and one adjacent to the last, on its left.

Question 11.
The mean of five observations is 15. If the mean of first three observations is 14 and that of last three is 17, then the third observation is
(a) 29
(b) 31
(c) 32
(d) 18

Answer: (d) 18

Question 12.
Mode of a set of observations is the value which
(a) is the sum of the observations
(b) occurs most frequently
(c) is the mean of the middle two observations
(d) divides the observations into two equal parts

Answer: (b) occurs most frequently

Question 13.
The mean for counting numbers through 100 is
(a) 47.5
(b) 51
(c) 50.5
(d) 49.5

Answer: (c) 50.5

Question 14.
The maximum frequency 10 is for the observation 4. Hence the mode of the data is
(a) 2
(b) 10
(c) 3
(d) 4

Answer: (d) 4

Question 15.
The collection of information, collected for a purpose is called:
(a) Mean
(b) Median
(c) Mode
(d) Data

Answer: (d) Data

Question 16.
Find median of following data: 83, 37, 70, 29, 45, 63, 41, 70, 34, 54
(a) 51
(b) 25

(c) 49.5
(d) 47

Answer: (c) 49.5

Question 17.
Class size for the following distribution: 0 – 0.25, 0.25 – 0.50, 0.50 – 0.75 is
(a) 10
(b) 0. 25
(c) 50
(d) 2.5

Answer: (b) 0. 25

Question 18.
In an examination, ten students scored the following marks: 60, 58, 90, 51, 47, 81, 70, 95, 87, 99. The range of this data is
(a) 52
(b) 51
(c) 81
(d) 60

Answer: (a) 52

Question 19.
Out of sixteen observations arranged in ascending order, the 8th and 9th observations are 25 and 27. Then, the median is
(a) 26
(b) 27
(c) 25
(d) 26.5

Answer: (a) 26
