

1. An attribute is
 - a) A qualitative characteristic
 - b) A quantitative characteristic
 - c) A measurable characteristic
 - d) All these
2. Nationality of a student is
 - a) An attribute
 - b) A continuous variable
 - c) A discrete variable
 - d) (a) or (c).
3. Which method of data collection covers the widest area?
 - a) Telephone interview method
 - b) Mailed questionnaire method
 - c) Direct interview method
 - d) All these
4. 'Stub' of a table is the
 - a) Left part of the table describing the columns
 - b) Right part of the table describing the columns
 - c) Right part of the table describing the rows
 - d) Left part of the table describing the rows.
5. Frequency density corresponding to a class interval is the ratio of
 - a) Class frequency to the total frequency
 - b) Class frequency to the class length
 - c) Class length to the class frequency
 - d) Class frequency to the cumulative frequency
6. A sample study of the people of an area revealed that total number of women were 30% and the percentage of coffee drinkers were 72 as a whole and the percentage of male coffee drinkers was 60. What was the percentage of female non-coffee drinkers?
 - a) 10
 - b) 15
 - c) 18
 - d) 20
7. Cost of sugar in a month under the heads Raw Materials, labour, direct production and others were 12, 20, 35 and 23 units respectively. What is the difference between the central angles for the labour and smallest components of the cost of sugar?
 - a) 72°
 - b) 48°
 - c) 32°
 - d) 92°

8. Which of the following results hold for a set of distinct positive observations?
- a) $AM \geq GM \geq HM$
 - b) $HM \geq GM \geq AM$
 - c) $AM > GM > HM$
 - d) $GM > AM > HM$
9. The average salary of a group of unskilled workers is Rs.18000 and that of a group of skilled workers is Rs.24,000. If the combined salary is Rs.22000, then what is the percentage of un skilled workers?
- a) 16.67%
 - b) 66.67%
 - c) 33.33%
 - d) None of these
10. If there are two groups with 60 and 55 as harmonic means and containing 12 and 11 observation then the combined HM is given by
- a) 65.5
 - b) 70.36
 - c) 53.5
 - d) 57.5
11. Which measure of dispersion is based on all the observations?
- a) Mean deviation
 - b) Standard deviation
 - c) Quartile deviation
 - d) (a) and (b) but not (c)
12. If two variables x and y are related to $2x + 3y - 7 = 0$ and the mean and mean deviation about mean of x are 1 and 0.3 respectively, then the coefficient of mean deviation of y about mean is
- a) -5
 - b) 12
 - c) 50
 - d) 4
13. If x and y are related by $2x + 3y + 4 = 0$ and variance of x is 36, then variance of y is
- a) 24
 - b) 4
 - c) 16
 - d) 9

14. If the variance of the 1st n natural numbers is 14, then the value of n must be

- a) 12
- b) 17
- c) 13
- d) 15

15. The algebraic sum of deviations of observations from their AM is

- a) 2
- b) -1
- c) 1
- d) 0

16. In the formula $\text{Mode} = L_1 + (d, X C) / (d_1 + d_2)$

d_2 is the difference of frequencies in the modal class & the _____ class.

- a) Preceding
- b) Following
- c) Both
- d) None

17. In a series the sum of all the observation is _____ times the arithmetic mean

- (a) 3
- (b) 4
- (c) 5
- (d) n

18. What is the value of the first quartile for observations 15, 18, 10, 20, 23, 28, 12, 16?

- a) 17
- b) 16
- c) 12.75
- d) 12

19. The third decile for the numbers 15, 10, 20, 25, 18, 11, 9, 12 is

- a) 13
- b) 10.70
- c) 11
- d) 11.50

20. Deviation from AM may be positive or negative or zero

- a) True
- b) False
- c) Both
- d) None

21. G.M is defined only when

- a) all observations have the same sign and none is zero
- b) all observations have the different sign and none is zero
- c) all observations have the same sign and one is zero
- d) all observations have the different sign and one is zero

22. "Root -Mean Square Deviation from Mean" is

- a) Standard deviation
- b) Quartile deviation
- c) Both
- d) None

23. Half of the nos. in an ordered set have values less than the _____ and half will have values greater than the _____

- a) Mean, median
- b) Median, median
- c) Mode, mean
- d) None

24. The median of 27, 30, 26, 44, 42, 51, 37 is

- a) 30
- b) 42
- c) 44
- d) 37

25. Measures of dispersion are called averages of the ____ order.

- a) 1st
- b) 2nd
- c) 3rd
- d) None

Approved
By DC SIR at 10 Dec 14 20:36