

Deccan Education Society, Pune

Chintamanrao College of Commerce, Sangli – 416 415
B.Com. Part II – (Sem III) Examination, March - 2021

Subject: Business Statistics Multiple Choice Questions (Business Statistics) (CBCS Pattern)

QUESTION BANK

Question: Select the correct option.

Unit I: Introduction to Statistics

- The information collected for statistical investigation is called _____
 - Number
 - Data**
 - Sample
 - None of these
- Income of a person is an example of _____ data.
 - Discrete**
 - Qualitative
 - Quantitative
 - Continuous
- A finite subgroup of a population is called _____
 - Sample**
 - Census
 - Group
 - All the above
- In stratified random sampling, items of each group are included in the right _____
 - Direction
 - Units
 - Proportion**
 - Groups
- The criteria according to which the data are classified is called as _____ of classification.
 - Bases**
 - Types
 - Groups
 - Values
- The next stage of classification is _____
 - Qualitative
 - Tabulation**
 - Population
 - None of these
- The “size of a room” is an example of _____
 - Constant**
 - Variable
 - Class
 - Sample
- A variable which takes value within given range is called a _____ variable
 - Continuous**
 - Discrete
 - Standard
 - Constant
- The difference between upper limit and lower limit of a class is called _____
 - Frequency
 - Class interval
 - Midpoint
 - Class width**

10. If the classes are 0 to 9, 10 to 19, 20 to 29, 30 to 39 etc.; then they are called as _____ type of classes.
- a. Continuous b. Exclusive c. Open end d. **Inclusive**
11. There are _____ type of cumulative frequencies.
- a. **2** b. 3 c. 4 d. None of these
12. Diagrammatic representation gives only an _____ idea about the data.
- a. Clear b. Exact c. **Approximate** d. Suitable
13. Pie diagram is also called as _____ diagram.
- a. **Angular** b. Bar c. Subdivided bar d. Simple
14. _____ representation is useful to study mathematical relationship between two variables.
- a. Circular b. Bar. c. **Graphical** d. None of these
15. In histogram, _____ taken along x-axis
- a. Frequency b. **Class intervals** c. Angles d. Variable
16. Histogram is used to locate _____ value.
- a. **Modal** b. Median c. Range d. Mean
17. _____ ogive curve is used to locate deciles.
- a. More than b. **Less than** c. a or b d. Both a and b
18. _____ is a main part of table.
- a. Title b. Footnote c. Headnote d. **Body**
19. The best method of presentation of data is _____
- a. Textual b. Diagrammatic c. Headnote d. **Tabular**
20. The quickest method to collect the primary data is _____
- a. **Telephone interview** b. Personal interview
c. By observation d. Indirect interview
21. In sampling with replacement, a sampling unit can be selected _____
- a. Only once b. **More than once** c. Less than once d. None of these
22. The sum of frequencies for all the classes will always equal to _____
- a. 1 b. **The number of elements in the dataset**
c. Number of classes d. Value between 0 and 1
23. Constructed on x-y plane, a histogram is a graph of adjacent _____

- a. Squares b. Circles c. **Rectangles** d. Triangles
24. Less than cumulative frequency is related to _____ limit of the class.
- a. **Upper** b. Lower c. a and b d. None of these.
25. The easiest and most commonly used method of sampling is _____
- a. **Simple random sampling** b. Stratified random sampling
c. Cluster sampling d. Systematic sampling

Unit II: Measures of Central Tendency

1. The median, deciles, percentiles are all considered as _____
- a. Mathematical average b. Population average c. Sample average d. **Positional average**
2. In the two units of company, the employees in one unit are 650 and the monthly salary is \$2750 and employees in second unit are 700 and monthly salary is \$2500. Then the combined mean salary _____
- a. **\$2620** b. \$2520 c. \$2420 d. \$2320
3. The number of observations is 30 and the value of arithmetic mean is 15. Then the sum of all values is _____
- a. 15 b. **450** c. 200 d. 45
4. The value of $\Sigma f x = 180$, $A=22$, $h=5$ and $AM=120$. Then the observations are _____
- a. 59 b. **30** c. 39.5 d. 49.5
5. According to percentiles, the median to be measured must lie in _____ position.
- a. 80th b. 40th c. **50th** d. 10th
6. The sum of values of data divided by total number of values is called _____
- a. **AM** b. Weighted AM c. GM d. HM
7. The difference of mode and mean is equal to _____
- a. **3 × (mean – median)** b. (2 × mean) – median
c. Mean – (2 × mode) d. (2 × mode) – mean
8. If the mean is 11 and median is 13, then the value of mode is _____
- a. 15 b. 13 c. 11 d. **17**
9. The measure which describes the detailed characteristic of whole dataset is classified as _____

- a. $\frac{(L+L)}{(H+H)}$ b. $\frac{(H+H)}{(L+L)}$ c. $\frac{(H-L)}{(H+L)}$ d. $\frac{(H+L)}{(H-L)}$

8. Considering the standard deviation, the mean absolute deviation is equal to _____

- a. $\frac{5\sigma}{4}$ b. $\frac{5\sigma}{8}$ c. $\frac{4\sigma}{5}$ d. $\frac{7\sigma}{8}$

9. If quartile range is 24, then Q.D. is _____

- a. 48 b. **12** c. 24 d. 72

10. If A.M. is multiplied by C.V., then the resulting value is _____

- a. Coefficient of deviation b. Coefficient of mean c. **Standard deviation** d. Variance

11. If the large number of values lie in the central part of the data, then the spread of values is measured by _____

- a. Percentile range b. **Interquartile range** c. Quartile range d. Decile range

12. The measure of dispersion can never be _____

- a. Positive b. 0 c. **Negative** d. 1

13. If there are many extreme scores in all examinations, the dispersion is _____

- a. **Large** b. Small c. Normal d. Symmetric

14. If the values of variable x are -4, -20, -30, -44 and -36, then the value of range will be _____

- a. -48 b. **40** c. -40 d. 48

15. If $Q_3=20$ and $Q_1=10$, then coefficient of Q.D.= _____

- a. 3 b. $\frac{2}{3}$ c. **$\frac{1}{3}$** d. 1

16. The sum of absolute deviations is minimum if these deviations are taken from _____

- a. Mean b. Mode c. **Median** d. Q_3

17. Which of the following is unit free quantity?

- a. Range b. **C.V.** c. Standard Deviation d. A.M.

18. The variance is 0 only if all the observations are _____

- a. Different b. Square c. Square-root d. **Same**

19. The standard deviation of -5, -5, -5, -5, -5 is _____

- a. -5 b. 5 c. **0** d. -25

20. Standard deviation is always calculated from _____

- a. **Mean** b. Median c. Mode d. Q_1

21. The variance of 19, 21, 23, 25 and 27 is 8. Then the variance of 14, 16, 18, 20 and 22 is _____

- a. Greater than 8 b. 8 c. Less than 8 d. $8 - 5 = 3$

22. If the dispersion is small, the standard deviation is _____

- a. Large b. 0 c. Small d. Negative

23. The mean deviation of scores 12, 15, 18 is _____

- a. 6 b. 0 c. 3 d. 2

24. Dispersion is divided as spread of actual values from _____

- a. Median b. Average c. Mode d. None of these

25. Q.D. = _____ σ

- a. 2/3 b. 4/5 c. 5/6 d. 1/3