

MULTIPLE CHOICE QUESTIONS

1. For a given data with 50 observations 'the less than Ogive' and the 'more than ogive' intersect at (38.5, 34). The median of the data is:
(a) 38.5 (b) 34 (c) 50 (d) 4.5
2. The relation connecting the measures of central tendencies is

- (a) Mode = 2 Median - 3 Mean (b) Mode = 3 Median - 2 Mean
(c) Mode = 2 Median + 3 Mean (d) Mode = 3 Median + 2 Mean
3. The middle most observation of a statistical data has value which is called.
(a) Mean of the data (b) Median of the data
(c) Mode of the data (d) None of these
4. The mean and median of a data are 14 and 16 respectively. The value of mode is:
(a) 13 (b) 16 (c) 18 (d) 20
5. In the formula, $\bar{x} = a + \frac{\sum fidi}{\sum fi}$, for finding the mean of grouped data d_i 's are deviations from a of:
(a) Lower limits of the classes (b) Upper limits of the classes
(c) Mid points of the classes (d) Frequencies of the class marks
6. If $\bar{x}$ is the arithmetic mean of n observations $x_1, x_2, \dots, x_n$ then arithmetic mean of $ax_1, ax_2, \dots, ax_n$ is
(a) $a\bar{x}$ (b) $\frac{\bar{x}}{a}$ (c) $\frac{a}{x}$ (d) none of these
7. A data has 25 observations arranged in decending order. Which observation represents the median?
(a) 12th (b) 13th (c) 14th (d) 15th
8. The mode of a frequency distribution can be determined graphically from
(a) Ogive (b) Histogram
(c) Frequency polygon (d) Bar diagram
9. Which of the following is not a measure of central tendency
(a) Mode (b) Frequency (c) Median (d) Mean
10. If the mean of the following frequency distribution is 5 then the value of P is
- | | | | | | |
|-------|---|---|---|----|---------|
| x_i | 2 | 4 | 6 | 10 | $P + 5$ |
| f_i | 3 | 2 | 2 | 1 | 1 |
- (a) 7 (b) 8 (c) 9 (d) 4
11. If a is Mode, b is Mean and c is Median of a given data then
(a) $3c = a + 2b$ (b) $3b = 2a + c$ (c) $3b = a + 2c$ (d) $a = b + c$
12. The measures of central tendency which can't be found graphically is:
(a) mean (b) median (c) mode (d) none of these
13. The mean of 5 observations $x, x + 2, x + 4, x + 6$ and $x + 8$ is 11, then the value of x is
(a) 4 (b) 7 (c) 11 (d) 6
14. The mean of 20 numbers is 13. The new mean if each observation is increased by 5, is
(a) 13 (b) 18 (c) 65 (d) 8
15. The lower limit of modal class of the following data is

C.I.	0-10	10-20	20-30	30-40	40-50
Frequency	5	8	13	7	6

- (a) 10 (b) 30 (c) 20 (d) 50

16. The class mark of a class is equal to

(a) upper limit – lower limit

(b) lower limit + upper limit

(c) $\frac{1}{3}$ (lower limit + upper limit)

(d) $\frac{1}{2}$ (lower limit + upper limit)

Answers:

1. (a)

2. (b)

3. (b)

4. (d)

5. (c)

6. (a)

7. (b)

8. (c)

9. (b)

10. (d)

11. (a)

12. (a)

13. (b)

14. (b)

15. (c)

16. (d)