

14. STATISTICS

1 MARK QUESTIONS

1. If mode of a data is 45, mean is 27, then the median is
(a) 23 (b) 28 (c) 33 (d) 30
2. Median class is the class whose cumulative frequency is greater than (and nearest to)....
3. The time (in seconds), taken by 150 athletes to run a 110 m hurdle race are tabulated below

Class	13.8 - 14	14 - 14.2	14.2 - 14.4	14.4 - 14.6	14.6 - 14.8	14.8 - 15
Frequency	2	4	5	71	48	20

The number of athletes who completed the race in less than 14.6 s is

- (a) 11 (b) 71 (c) 82 (d) 130
4. Suppose mean of 10 observations is 20, if we add 5 in each observation, then the new mean will be
5. The median of a frequency distribution is found graphically with the help of ...
6. The class in which mode lies is called the
7. The abscissa of the point of intersection of the 'less than type' ogive curve and of the 'more than type' ogive curve of grouped data gives, which measure of central tendency?
8. The mid-point of a class interval is called its ...
9. of a class is the frequency obtained by adding the frequencies of all the classes preceding the given class.
10. For grouped data, if $\sum f_i = 20$, $\sum f_i x_i = 2p + 20$ and mean of distribution is 12, then find the value of p.
11. If x_i are the mid-points of the class intervals of grouped data, f_i 's are the corresponding frequencies and x is the mean, then $\sum (f_i x_i - x)$ is equal to
(a) 0 (b) -1 (c) 1 (d) 2
12. If mean = 31.04, median = 30.625, then
(a) 31.04 (b) 30.625 (c) 30.78 (d) None of these
13. The algebraic sum of the deviations of a set of values from their arithmetic mean is
(a) 0 (b) 1 (c) 2 (d) 3
14. If the mode of a data is 51, mean is 36, then find the median.
15. The perimeter of a square whose diagonal is 20 cm is

16. While drawing the less than ogive, take a limit.

ANSWERS

1. c 2. $n/2$ 3. c 4. 25 5. Ogives

6. Modal Class 7. Median 8. Class mark 9. Cumulative frequency 10. 110

11. a 12. d 13. a 14. 41 15. $40\sqrt{2}$

16. Upper Limit

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