Class 10 Maths Chapter 14 Statistics MCQs For Practice

1. In the formula
mean = a + (fᵢdᵢ/ 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 mark

2. In the following distribution:

Monthly income range (in Rs)	Number of families
Income more than Rs 10000	100
Income more than Rs 13000	85
Income more than Rs 16000	69
Income more than Rs 19000	50
Income more than Rs 22000	33
Income more than Rs 25000	15

the number of families having income range (in Rs) 16000 – 19000 is
(a) 15
(b) 16
(c) 17
(d) 19

3. For the following distribution:

Class	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25
Frequency	10	15	12	20	9

the sum of lower limits of the median class and modal class is
(a) 15
(b) 25
(c) 30
(d) 35

4. Consider the data:

Class	65-85	85-105	105-125	125-145	145-165	165-185	185-205
Frequency	4	5	13	20	14	7	4

The difference of the upper limit of the median class and the lower limit of the modal class is
(a) 0
(b) 19
(c) 20
(d) 38

5. If x_i's are the mid points of the class intervals of grouped data, f_i's are the corresponding frequencies and X is the mean, then (f_ix_i - X) is equal to
(a) 0
(b) –1
(c) 1

(d) 2

6. The mean of the following distribution is:

Class	1-3	3-5	5-7	7-10
Frequency	9	22	27	17

(a) 4.5
(b) 6.5
(c) 4.8
(d) 5.5

7.

In the formula $\bar{x} = a + h \dfrac{f_i u_i}{f_i}$, for finding the mean of grouped frequency

distribution, $u_i =$

(a) $\dfrac{x_i + a}{h}$

(b) $h(x_i - a)$

(c) $\dfrac{x_i - a}{h}$

(d) $\dfrac{a - x_i}{h}$

8. Mode is the
(a) middle most value
(b) observation with least frequency
(c) observation with maximum frequency
(d) none of these

9. The algebraic sum of the deviations of a frequency distribution from its mean is always
(a) zero
(b) greater than zero
(c) non-zero number
(d) less than zero

10. The measure of central tendency cannot be determined graphically is
(a) Mean
(b) Median
(c) Mode
(d) None of these

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| 1 - (c) | 2 – (d) | 3 - (b) | 4 - (c) | 5 - (a) |
| 6 - (d) | 7 - (c) | 8 - (c) | 9 - (a) | 10 - (a) |