CBSE NCERT Based Chapter wise Questions (2025-2026)

Class-X

Subject: Mathematics

Total : 6 Marks (expected) [MCQ(1)-1 Mark, LA(1)-5 Marks]

Chapter Name : *Statistics* (Chap : 13)

Level - 1

MCQ Type :

1. Cumulative frequency curve is also called

   Ⓐ histogram Ⓑ ogive Ⓒ bar graph Ⓓ median

2. The relationship between mean, median and mode for a moderately skewed distribution is

   Ⓐ mode = median – 2 mean Ⓑ mode = 3 median – 2 mean

   Ⓒ mode = 2 median – 3 mean Ⓓ mode = median – mean

3. Mode and mean of a data are 12k and 15K respectively. Median of the data is

   Ⓐ 12k Ⓑ 14k Ⓒ 15k Ⓓ 16k

4. The abscissa of the point of intersection of the less than type and of the more than type cumulative frequency curves of a grouped data gives its

   Ⓐ mean Ⓑ median Ⓒ mode Ⓓ all the three above

5. Mean of 100 items is 49. It was discovered that three items which should have been 60, 70, 80 were wrongly read as 40, 20, 50 respectively. The correct mean is

   Ⓐ 48 Ⓑ 49 Ⓒ 50 Ⓓ 60

6. While computing mean of grouped data, we assume that the frequencies are

   Ⓐ centered at the upper limits of the classes Ⓑ centered at the lower limits of the classes

   Ⓒ centered at the class marks of the classes Ⓓ evenly distributed over all the classes

7. If the arithmetic mean of x, x + 3, x + 6, x + 9 and x + 12 is 10, then x =?

   Ⓐ 1 Ⓑ 2 Ⓒ 6 Ⓓ 4

LA Type:

8. Calculate mode of the following data:

Marks	0 – 20	20 – 40	40 – 60	60 – 80	80 – 100
No. of Students	5	10	12	6	3

9. Calculate median marks of the following data:

Marks	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
No. of Students	2	12	22	8	6

10. The data on number of patients attending a hospital in a month are given below. Find the average number of patients attending the hospital in a day.

No. of Patients	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
No. of Days	2	6	9	7	4	2

11. The arithmetic mean of the following frequency distribution is 50. Find the value of p.

Class	0 – 20	20 – 40	40 – 60	60 – 80	80 – 100
Frequency	17	p	32	24	19

12. The mode of the following frequency distribution is 34.5. Find the value of x.

Class	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
Frequency	4	8	10	x	8

13. The median of the distribution given below is 14.4. Find the values of x and y, if the sum of frequency is 20.

Class Interval	0 – 6	6 – 12	12 – 18	18 – 24	24 – 30
Frequency	4	x	5	y	1

ANSWER

1. Ⓑ
2. Ⓑ
3. Ⓑ
4. Ⓑ
5. Ⓒ
6. Ⓒ
7. Ⓓ
8. 45
9. 25
10. 28.67
11. 28
12. 19
13. x = 4, y = 6