



MM 20

Statistics

Time 1h

Section A 1 Marks Each

Paper prepared by

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- For a frequency distribution, the mid-value of the class is 150 and the width of the class is 20. The lower limit of the class is:
(A) 130 (B) 150 (C) 170 (D) 140
- The range of the data 22,25,20,32,36,28,40,45,35,38 is:
(A) 15 (B) 25 (C) 20 (D) 10
- The mean of 100 observations is 50. If one of the observations, which was 50 is replaced by 100, the resulting mean will be:
(A) 50.5 (B) 51 (C) 51.5 (D) 52
- The mean of 25 observations is 36. Out of these observations if the mean of first 13 observations is 32 and that of last 13 observation is 40. The thirteenth observation is
(A) 23 (B) 36 (C) 38 (D) 40
- Which of the following is not pictorial representation of data?
(A) frequency polygon (B) frequency distribution table
(C) Histogram (D) bar graph

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Section B 2 Marks Each

- Means of 50 observations was found to be 80.4. but later on, it was discovered that 69 was misread as 96 while calculating mean at one place. Find the correct mean.
- If the means of the observations $2x+1$, $2x+5$, $2x+9$ is 30, what is the means of last two observations?
- In mathematics test given to 15 student, the following marks (out of 100) are recorded 41, 39, 48, 52, 46, 62, 54, 40, 96, 52, 40, 40, 42, 52 and 60. Find the mean, median and mode of this data.

Section B 3Marks Each

- Find the mean salary of 80 workers of a factory from the following table:

Salary (in Rs.)	Number of workers
5000	22
6000	18
7000	15
8000	10
9000	8
10000	7

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10. The runs scored by two teams A and B on the first 60 balls in cricket match are given below. Draw a frequency polygon on the same graph.

Number of balls	Team A	Team B
0-6	2	5
7-12	1	6
13-18	8	2
19-24	9	10
25-30	4	5
31-36	5	6
37-42	6	3
43-48	10	4
49-54	6	8
55-60	2	10

Section D4 Marks Each

11. 100 surnames were randomly picked up from a local telephone directory and a frequency distribution of number of letters in the English alphabets in the surnames was found as follows. Draw a histogram to depict the given information.

Number of letters	1-4	4-6	6-8	8-12	12-20
Number of surnames	6	30	44	16	4

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