



**Assignment**

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Date: \_\_ / \_\_ / \_\_

Name: \_\_\_\_\_

Max Marks: 25

**Section- A (One Marks Each)**

- 1 If the mean of observations (x, x+3, x+5, x+7, x+10) is 9, what is the mean of the last three observations?
- 2 What is the median of the following data?  
78,56,22,34,45,54,39,68,54,84
- 3 The mean of a certain set of observations is 42. If each observation is decreased by 26, what will be the new mean?
- 4 If the mode of the following data is 15, find the value of x.  
10,11,12,10,15,14,15,13,12,x,9,7

**Section-B (Two Marks Each)**

- 5 The mean of a certain set of data is 25. If each observation is decreased by 50%. What will be the resulting mean?
- 6 Find the median of the following data:  
66,69,108,75,78,83,99,100,101,102
- 7 Find x,y,z and t in the following frequency distribution:

Class interval	Frequency	Cumulative frequency
30-40	12	X
40-50	Y	17
50-60	15	32
60-70	Z	42
70-80	8	t

- 8 If the mean of the following data is 20.5, what is the value of P?

$X_1$	10	15	20	25	30
$F_1$	6	10	P	10	8

- 9 The mean of 25 observations is 36. Out of these observations, if the mean of the first 13 observations is 32 and that of the last 13 observations is 40, find the 13<sup>th</sup> observations.
- 10 The mean of 100 observations is 50. If an observation '50' is replaced by '150', what will be the resulting mean?

**Section-C (Three Marks Each)**

- 11 The following observations are arranged in ascending order. If the median of the data is 57, find the value of x.  
30,x,32,48,51,2x-3,62,72,78,84,91
- 12 The mark ( out of 100) obtained by 15 students in a mathematics test are as follows:  
41,39,48,52,46,62,54,60,40,96,42,52,98,40,52  
Find the mean, median and mode of this data.
- 13 The mean of the following distribution is 50. Find the value of 'a' and hence compute the frequencies of 30 and 70.

X	10	30	50	70	90
Y	17	5a+3	32	7a-11	19