Name: _____	**Subject:** Mathematics	**Class:** 10th	**Time:** 80 minutes	Total Marks:	**30**
Chapter No.06	**MJDexpert.com**			Obtained marks	

Note: Please attempt any 10 short questions from Question 2. Also, attempt both parts of Question 3. Cutting and removal of any content is strictly prohibited.

Q#1	**Circle the correct option**		**1×6=6**
1. The set of adjacent rectangles is called:			
a) Histogram	b) Frequency Polygon	c) Ogive	d) None of these
2. Mean is affected by change in……..			
a) Value	b) Ratio	c) Origin	d) Both a and b
3. Sum of the deviation of variable X from its mean is always……			
a) Zero	b) One	c) Two	d) Same
4. The most frequent value of data is called:			
a) Mode	b) Median	c) Mean	d) Frequency
5. The n^{th} positive root of the product of observation of given is called:			
a) Mode	b) Mean	c) Median	d) Geometric Mean
6. The extent of variation between two extreme observation of data set is called:			
a) Average	b) Range	c) Quartiles	d) None

Q#2	**Attempt all the short questions**	**2×8=16**
i.	The following data shows the number of members in various families. Construct frequency distribution. Also find cumulative frequencies. 9,11,4,5,6,8,4,3,7,8,5,5,8,3,4,9,12,8,9,10,6,7,7,11,4,4,8,4,3,2,7,9,10,9,7,6,9,5,7.	
ii.	The salaries of five teachers are given find range. 15000,12400,11500,14800,14500	
iii.	Write the three properties of arithmetic mean.	
iv.	Find the arithmetic mean by direct method for the following set of data. And also define cumulative frequency. 12,14,17,20,24,29,35,45.	
v.	Define class limits.	
vi.	Data 9,11,4,5,6,8,4,3,7,8,5,5,8,3,4,9,12,8,9,10,6,7,7,11,4,4,8,4,3,2,7,9,10,9,7,6,9,5 show the number of various families. Find median and mode	
vii.	Define variance.	
viii.	Construct frequency distribution. Also find cumulative frequency of 4,5,6,8,3,7,5,5,8,3,4,9,10,6,7,7,11,4,4,8,4,3,2,7,9,10,9,7,6,9,5,7	

Q#3	**Write detailed answer of the following questions**	**4+4=8**
a)	On a vacation trip a family bought 21.3 litters of petrol at 39.90 rupees per liter, 18.7 liters at 42.90 rupees per liter, and 23.5 liters at 40.90 rupees per liter. Find the mean price paid per liter	
b)	Find Variance 9,3,8,8,9,8,9,18.	

"Simplicity is the ultimate sophistication"

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