1. The set of adjacent rectangles is called:         a) Histogram       b) Frequency Polygon       c) Ogive       d) None of the         2. Mean is affected by change in	Name	:		Subjec	t: Mathematics	Class: 10 <sup>th</sup>	Time: 80 minutes	Total Marks:	30
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 the         2. Mean is affected by change in					MJDexpert.com			Obtained marks	
1. The set of adjacent rectangles is called:         a) Histogram       b) Frequency Polygon       c) Ogive       d) None of the         2. Mean is affected by change in		Note:		• •	•				
1. The set of adjacent rectangles is called:         a) Histogram       b) Frequency Polygon       c) Ogive       d) None of the         2. Mean is affected by change in	2#1			Cir	cle the corr	ect option		1×6=	6
a)       Histogram       b)       Frequency Polygon       c)       Ogive       d)       None of the         2.       Mean is affected by change in		The set of	adjacent re	ectangles is call	ed:				
2. Mean is affected by change in			,	-		c) Ogive		d) None of t	nese
3. Sum of the deviation of variable X from its mean is always	,		ffected by o	· · ·				,	
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 <sup>th</sup> positive root of the product of observation of given is called:       a) Mode       b) Mean       c) Median       d) Geometric Mean         a) Mode       b) Mean       c) Median       d) Mean       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 <b>Q#2</b> Attempt all the short questions <b>2×8=16 2×8=16</b> 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         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.         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			2	,		) 0		d) Both a an	d b
4. The most frequent value of data is called:         a) Mode       b) Median       c) Mean       d) Frequency         5. The n <sup>th</sup> 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 <b>Q#2 Attempt all the short questions 2</b> × <b>8=16</b> 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. <b>ii.</b> The salaries of five teachers are given find range.       15000,12400,11500,14800,14500       12,14,17,20,24,29,35,45. <b>iii.</b> 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. <b>v</b> .       Define class limits.       v.       Define class limits.       v. <b>v</b> .       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			e deviation		om its mean is a	· ·			
a) Mode       b) Median       c) Mean       d) Frequency         5. The n <sup>th</sup> 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 <b>Q#2</b> 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       12,14,17,20,24,29,35,45.         v.       Define class limits.       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				,		c) Two		d) Same	
<ul> <li>5. The n<sup>th</sup> positive root of the product of observation of given is called: <ul> <li>a) Mode</li> <li>b) Mean</li> <li>c) Median</li> <li>d) Geometric Mean</li> </ul> </li> <li>6. The extent of variation between two extreme observation of data set is called: <ul> <li>a) Average</li> <li>b) Range</li> <li>c) Quartiles</li> <li>d) None</li> </ul> </li> <li><b>Q#2</b> <ul> <li>Attempt all the short questions</li> <li>2×8=16</li> </ul> </li> <li>i. The following data shows the number of members in various families. Construct frequency distribution Also find cumulative frequencies. <ul> <li>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.</li> </ul> </li> <li>ii. The salaries of five teachers are given find range. <ul> <li>15000,12400,11500,14800,14500</li> </ul> </li> <li>iii. Write the three properties of arithmetic mean.</li> <li>iv. Find the arithmetic mean by direct method for the following set of data. And also define cumulative frequency. <ul> <li>12,14,17,20,24,29,35,45.</li> </ul> </li> <li>v. Define class limits.</li> <li>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</li> </ul>			trequent va				1	J) P	
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       15000,12400,11500,14800,14500         iii. Write the three properties of arithmetic mean.       12,14,17,20,24,29,35,45.       12,14,17,20,24,29,35,45.         v. Define class limits.       v. Define class limits.       12,14,17,20,24,29,35,45.       12,14,17,20,24,29,35,45.			citive root d					d) Frequenc	<u>у</u>
<ul> <li>a) Average</li> <li>b) Range</li> <li>c) Quartiles</li> <li>d) None</li> <li>Q#2</li> <li>Attempt all the short questions</li> <li>2×8=16</li> <li>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.</li> <li>ii. The salaries of five teachers are given find range. 15000,12400,11500,14800,14500</li> <li>iii. Write the three properties of arithmetic mean.</li> <li>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.</li> <li>v. Define class limits.</li> <li>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</li> </ul>		Aode		b) Mean		c) Median			с
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.       15000,12400,11500,14800,14500         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			t of variatic		extreme obser				
<ul> <li>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.</li> <li>ii. The salaries of five teachers are given find range. 15000,12400,11500,14800,14500</li> <li>iii. Write the three properties of arithmetic mean.</li> <li>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.</li> <li>v. Define class limits.</li> <li>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</li> </ul>	a) A	Average	6	b) Range		c) Quartil	es	d) None	
<ul> <li>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.</li> <li>ii. The salaries of five teachers are given find range. 15000,12400,11500,14800,14500</li> <li>iii. Write the three properties of arithmetic mean.</li> <li>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.</li> <li>v. Define class limits.</li> <li>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</li> </ul>	Q#2			Attemp	t all the sho	rt questions		<b>2</b> ×8=16	
<ul> <li>15000,12400,11500,14800,14500</li> <li>Write the three properties of arithmetic mean.</li> <li>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.</li> <li>Define class limits.</li> <li>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</li> </ul>									n.
<ul> <li>Write the three properties of arithmetic mean.</li> <li>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.</li> <li>Define class limits.</li> <li>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</li> </ul>	ii.	The salar	ies of five te	-		0 14500			
<ul> <li>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.</li> <li>v. Define class limits.</li> <li>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</li> </ul>	iii.								
<ul> <li>v. Define class limits.</li> <li>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</li> </ul>		Find the	arithmetic r		method for the	C C C	m	fine cumulative	
various families. Find median and mode	<b>v.</b>	Define cla	ass limits.	1		· · · · · · · · · ·			
vii. Define variance.	vi.								of
	vii.	Define va	ariance.						

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				
6)	Find Variance 9,3,8,8,9,8,9,18.				

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Name:	Subject: Mathematics	Class: 10 <sup>th</sup>	Time: 80 minutes	Total Marks:	30
Chapter No.06	М	MJDexpert.com			



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