

Subject : MATHS DPP No. : 1 Class: XIth Date:

			_	TATISTICS						
1. has	Suppose a population 100 observations 153						on <i>B</i>			
pop	oulations respectively,	then $\frac{V_A}{V_B}$	is							
	0	b) $\frac{4}{9}$		c) $\frac{2}{3}$		d) 1				
2.	The SD of 15 items is 6	and if ea	ch item is decr	eases by 1, then s	standard	derivation will be				
	a) 5	b) 7		c) $\frac{91}{15}$		d)6				
3.	If the S.D. of a variate X is σ , then the S.D. of $aX + b$ is									
	a) $ a \sigma$	b) σ		c) a σ		d) $a \sigma + b$				
4.										
The	value of 10th item is									
	a) 35	b) 30		c) 25		d) 20				
5.	The mean deviation from the mean <mark>of the</mark> set of observations, -1, 0, 4 is									
	a) 3	b) 1		c) -2		d) 2				
6.	The regression coeffi	cien <mark>t of</mark>	y on x is $2/3$ a	and that of <i>x</i> on	y is 4/3	.The acute angle				
between the two regression lines is $tan^{-1}k$, where k is equal to										
	a) 1/9	b) 2/9		c) 1/18		d) 1/3				
7.	The mean of the num	bers a,b	,8,5,10 is 6 an	d the variance i	is 6.80. '	Then, which one of	•			
the following gives possible values of <i>a</i> and <i>b</i> ?										
	a) $a = 3$, $b = 4$	b) $a = 0$	b = 7	c) $a = 5$, $b = 2$		d) $a = 1$, $b = 6$				
8.	The mean-deviation and coefficient of mean deviation from the data. Weight (in kg) 54,									
50,	50, 40, 42, 51, 45, 47, 55, 57 is									
	a) 0.0900	b) 0.095	56	c) 0.0056		d) 0.0946				
9.	\hat{p} . The weighted AM of first n natural numbers whose weights are equal to the corresponding									
numbers is equal to										
	a) $2 n + 1$	b) $\frac{1}{2}(2 n$	+ 1)	c) $\frac{1}{3}(2 n + 1)$		$d)^{\frac{2n+1}{6}}$				
10.	The median of 10,14,11,9,8,12,6 is									
	a) 14	b) 11		c) 10		d) 12				
11.	If \overline{x} is the arithmetic me	ean of n i	ndependent va	riates $x_1, x_2, x_3,,$	x_n each of	of the standard				
derivation σ , then variance (\overline{x}) is										
	a) $\frac{\sigma^2}{n}$	b) $\frac{n\sigma^2}{2}$		c) $\frac{(n+1)\sigma^2}{3}$		d) None of these				
12.	If 25% of the observations in a frequency distribution are less than 2 and 25% are more than									

40, then the quartile deviation is

	a) 20	b)30	c) 40	d) 10						
13.	Standard deviation for first 10 even natural numbers is									
	a) 11	b) 7.74	c) 5.74	d) 11.48						
14.	he AM of the series 1, 2, 4, 8, 16,, 2^n is									
	a) $\frac{2^n-1}{n}$	$b)\frac{2^{n+1}-1}{n+1}$	c) $\frac{2^n+1}{n}$	$d)\frac{2^n-1}{n+1}$						
15.	The correlation coefficient of two variable x and y is 0.8. The regression coefficient of y									
on x is 0.2, than the regression coefficient of x on y is										
	a) 3.2	b)-3.2	c) 4	d) 0.16						
16.	The values of mean, median and mode coincide, then the distribution is									
	a) Positive skewness		b) Symmetric distribution							
	c) Negative skewness	;	d) All of the above							
17.	If $\overline{x} = \overline{y} = 0$, $\sum x_i y_i =$	ficient of correlation is								
	a) 0.1	b) 0.3	c) 0.2	d) 01						
18.	The mode of the series 3,4,2,6,1,7,6,7,6,8,9,5 is									
	a) 5	b)6	c) 7	d)8						
19.	A data has highest valu	e 120 and lowest value	71. A frequency distribu	tion in descending order						
witl	n seven classes is to be c	constructed. The limits o	f the second classes-inte	erval shall be						
	a) 71 and 78	b) 78 and 85	c) 113 and 120	d) 106 and 113						
20. A group of 10 items has arithmetic mean 6. If the arithmetic mean of 4 of these items is 7.5,										
then the mean of the remaining items is										
	a) 6.5	b) 5.5	c) 4.5	d) 5.0						