

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

		Topi	C:- STATISTICS					
1.	Suppose a population	on A has	90 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200	100 observations 101,102,,200				
an			ons 151,152,,250	if V_A and V_B represent the				
variances of the two populations respectively, then $\frac{V_A}{V_B}$ is								
			v B					
	a)	b) $\frac{4}{9}$	c) $\frac{2}{3}$	d) 1				
2.	The SD of 15 items is		0.4	andard derivation will be				
	a) 5	b) 7	c) $\frac{91}{15}$	d) 6				
3.	If the S.D. of a variate	<i>X</i> is σ , then the S.D. of	aX + b is					
	a) $ a \sigma$	b) σ	c) a σ	d) $a \sigma + b$				
4. The mean weight of 9 items is 15. If one more item is added to the series, the mean becomes 16. The value of 10th item is								
,	a) 35	b) 30	c) 25	d) 20				
5.			· ·					
	a) 3	b) 1	c) -2	d) 2				
6.	The regression coef	ficient of y on x is $2/$	3 and that of x on y	is 4/3 .The acute angle between				
the	e two regression lines							
	a) 1/9	b) 2/9	c) 1/18	d) 1/3				
7. The mean of the numbers a , b , 8,5,10 is 6 and the variance is 6.80. Then, which one of the								
fol	lowing gives possible							
				d) $a = 1, b = 6$				
8.		and coefficient of m	ean deviation from	the data. Weight (in kg) 54, 50, 40,				
42	, 51, 45, 47, 55, 57 is							
	a) 0.0900	b) 0.0956	c) 0.0056	d) 0.0946				
9. The weighted AM of first n natural numbers whose weights are equal to the corresponding numbers is								
eq	ual to	1,1(2,11)	11(21)	n 2 n+1				
	a) $2n + 1$	b) $\frac{1}{2}(2n+1)$	c) $\frac{1}{3}(2n+1)$	d) $\frac{2n+1}{6}$				
10.	The median of 10,14,1		110	1) 12				
11	a) 14	b) 11	c) 10	d) 12				
11. If \bar{x} is the arithmetic mean of n independent variates $x_1, x_2, x_3,, x_n$ each of the standard derivation σ , then variance (\bar{x}) is								
CIIC	a) $\frac{\sigma^2}{n}$	b) $\frac{n\sigma^2}{2}$	c) $\frac{(n+1)\sigma^2}{3}$	al) Name of the are				
		<u> </u>	5	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								
tne	e quartile deviation is a) 20	b) 30	c) 40	d) 10				
13	Standard deviation for	•	•	u) 10				
<u> </u>	a) 11	b) 7.74	c) 5.74	d) 11.48				
14. The 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) $\frac{2^{n}-1}{n+1}$				
	\tilde{a} , n	\sim $n+1$	n	n+1				



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15.	The correlation coeff	icient of two variable	x and y is 0.8. The reg	ression coefficient of y on x is		
0.2	, than the regression c	coefficient of x on y is				
	a) 3.2	b) -3.2	c) 4	d) 0.16		
16.	The values of mean, i	ition is				
	a) Positive skewness		b) Symmetric distribution			
	c) Negative skewness		d) All of the above			
17.	If $\bar{x} = \bar{y} = 0$, $\sum x_i y_i = 12$, $\sigma_X = 2$, $\sigma_Y = 3$ and $n = 10$, then the coefficient 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 value 120 and lowest value 71. A frequency distribution in descending order with					
sev	en classes is to be const	ructed. The limits of the	second classes-interval	shall be		
	a) 71 and 78	h) 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

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