





## **SOLUTION OF WORKSHEET-22**

## **SUBJECT - STATISTICS**

Term: 1st

			101111 1 1	i			
_	: - Disp Marks:	ersion 15		Class: XI Date:22 .08. 2020			
Q1.	Select the correct alternative of the following questions.						
	(i)	The marks of 7 students in a class test are 1, 2, 4, 7, 8, 11,11, 13. The standard deviation is					
		(a) 2	(b)4	(c)8		(d) none of these	
	(ii)	The variance i	s used to calculate the (b) observation in GF		n in AP	(d) none of these	
	(iii)	The marks of 5	5 students in a class te (b)4	est are 2, 4, 4, 7 (c)11	7, 7, 8, 2	3. The variance is (d) none of these	
	(iv)	If all the Observation is equal to $-\frac{1}{7}$ , then the standard variance is equal to					
		(a) 0	(b) $\frac{1}{5}$	(c)-5		(d) none of these	
	(v)	Variance of -(2n+3),, -1, 0, 1,, (2n-1) is					
		(a) -1	(b) 0	(c) $\frac{n-1}{2}$		(d) none of these	
	(vi)	Variance of cast of several people					
		(a)n-1	(b) 0	(c) $\frac{n-1}{2}$		(d) none of these	
	(vii)	Variance can a (a) countably (c) uncountab		(b) ur		bly infinite	

(viii)	If 5x= 9y and (a) 0	variance of x is (b)1	7, then mean deviation (c)0. 5	on about mean of y is (d) none of these				
(ix)	The combined (a) 1 <sup>st</sup> set	l variance depe (b) 2 <sup>nd</sup> set	ends upon the (c) both	(d)none of these				
(x)	The variance i (a) half	s less than the (b) one third		ne given sets where n is (d) one fourths				
(xi)	The variance i	s greater than (b) median	the $\frac{1}{2n}$ of the (c) mode	(d) range				
(xii)		The standard deviation is greater than the absolute difference between mean						
	and (a) gm	(b) hm	(c) median	(d) none of these				
(xiii)	There are 12 observations with variance 3. If 0.3 is added to all the observation then the standard deviation of the new set is							
	(a) 3	(b) 3.3	(c) 30	(d) none of these				
(xiv)	There are 10 observations with standard deviation 4. If all the observations be multiplied by 4 then the variance of the new set is							
	(a)4	(b) 8	(c) 16	(d) none of these				
(xv)	The observations are 1,2, 3, 4, 5, 6 then variance is (a) 0 (b) 7 (c) 8 (d) none of these							
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