



## **SOLUTION OF WORKSHEET-13**

# **SUBJECT - STATISTICS**

### Term : 1st

#### **Topic – CENTRAL TENDENCY**

### Full Marks: 15

Class: XI

Date:03 .07. 2020

Q1. Select the correct alternative of the following questions.

(i)	The marks of 5 students in a class test are 2, 4, 7, 8, 116. A suitable measu these marks is					
	(a) mean	(b) geometric mean	(c) highest value	(d) none of these		
(ii)	The HM is used to calculate the average of					
	(a) all values	(b) rate measure	(c)observation in Al	' (d) none of these		
(iii)	Geometric mean of first n+2 even natural numbers is					
	(a)2 $(n!)^{n+1}$	(b) n	(c) 2 $((n)!)^{\frac{1}{n}}$	(d) none of these		
(iv)	If all the Observation is equal to -5, then the hm is equal to					
	(a)-4	(b)-5	(c)-6	(d) none of these		
(v)	Geometric mean of -(2n+3),, -1, 0, 1,, (2n-1) is					
	(a) -1	(b) 0	(c) $\frac{n-1}{2}$	(d) none of these		
(vi)	Harmonic mean of cast of several people					
	(a)n-1	(b) 0	(c) $\frac{n-1}{2}$	(d) none of these		
(vii)	Harmonic mean canalways be calculated of a set having observation					
	(a) uncountable	-		(b) uncountably infinite (d) none of these		
	(c) countably	minte	(a) none of			

(viii)	If 5x=0.7y and harmonic mean of x is 7, then harmonic mean of y is					
	(a) 0	(b)1	(c)0. 5	(d) none of these		
(ix)	Harmonic mean depends upon the change of					
	(a) base	(b) scale	(c) both	(d)none of these		
(x)	The composite Harmonic mean lies between the harmonic mean of two given sets					
	(a) always	(b) never	(c) sometimes	(d) none of these		
(xi)	If the maximum value of a set of observations is 6, then the harmonic mean is (a) $< 6$ (b) $> 6$ (c) = 6 (d) none of these					
(xii)	The product (a) -1	of ratio of of ha (b) 1	armonic mean from to (c) 0	all the observations is (d) none of these		
(xiii)	There are 10 observations with harmonic mean 3. If 0.3 is divived to all the observations then the geometric mean of the new set is					
	(a) -30	(b) 10	(c) 30	(d) none of these		
(xiv)	There are 10 observations with hm. 4. If all the observations be divided by 4 then the sum of the reciprocal of those are					
	(a)0	(b) 2	(c) 1	(d) none of these		
(xv)	Harmonic mean of an countably infinite set of observations is					
. /	(a) -1	(b) 1	(c) 0	(d) none of these		

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