ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTION OF WORKSHEET-10

SUBJECT – STATISTICS

Term : 1st

Topic – CENTRAL TENDENCY **Class: XI**

Full Marks: 15 **Date:29 .06. 2020**

Q1. Select the correct alternative of the following questions.

(i) The marks of 5 students in a class test are 11, 8, 76, 10, 15. A suitable measure of these marks is

(a) mean (b) first value (c) highest value (d) none of these

(ii) The AM of $1,2,2^2, ...,2^9$ is

(a) 102.4 (b) 102.3 (c) 1024 (d) none of these

(iii) Arithmetic mean of first n+1 even natural numbers is

(a)n-1 (b)n+1 (c) $\frac{n-1}{2}$ **(d) none of these**

(iv) If all the Observation is equal to -3, then the am is equal to

(a)2 **(b)-3** (c)4 (d) none of these

(v) Arithmetic mean of –n,-(n-1), ..., -1, 0, 1, ... , (n-1), is

(a) -1 (b) 0 (c) $\frac{n-1}{2}$ (d) none of these

(vi) Arithmetic mean of religion of several people

(a)n-1 (b) 0 (c) $\frac{n-1}{2}$ **(d) none of these**

(vii) Arithmetic mean can be calculated of a set having observation

(a) countably finite (b) countably infinite

(c) uncountably finite (d) none of these

(viii) If 5x-7y = -2 and Arithmetic mean of x is 1, then Arithmetic mean of y is

(a) 0 **(b)1** (c) 2 (d) none of these

(ix) Arithmetic mean does not depends upon the change of

(a) base (b) scale (c) both **(d)none of these**

(x) The combined Arithmetic mean lies between the Arithmetic mean of two given sets

(a) **always** (b) never (c) sometimes (d) none of these

(xi) If the minimum value of a set of observations is -4, then the arithmetic mean is

(a) < -4 **(b) > -4** (c) = -4 (d) none of these

(xii) Sum of differences of arithmetic mean from all the observations is

(a) -1 (b) 1 **(c) 0** (d) none of these

(xiii) There are 10 observations with am. 3. If 3 is subtracted from all the observations then the mean of the new set is

(a) -3 **(b) 0** (c) 3 (d) none of these

(xiv) There are 10 observations with am. 4. If all the observations be divided by 4 then the mean of the new set is

(a)1 (b) 2 (c) 3 (d) none of these

(xv) if there are two sets of observations with n values and mean respectively -5 and +5 then the composite arithmetic mean is

(a) -5 **(b) 0** (c) 5 (d) none of these

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