ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-16

SUBJECT – STATISTICS

Term : 1st

Topic – CENTRAL TENDENCY **Class: XI**

Full Marks: 15 **Date:08 .07. 2020**

Q1. Select the correct alternative of the following questions.

(i) The marks of 5 students in a class test are 1, 2, 4, 7, 8, 11. The harmonic mean is greater than

(a) 2 (b)4 (c)8 (d) none of these

(ii) The HM is used to calculate the average of

(a) all values (b) observation in GP (c)observation in AP (d) none of these

(iii) The marks of 5 students in a class test are 2, 4, 7, 8, 23. The harmonic mean is less than

(a) 2 (b)4 (c)11 (d) none of these

(iv) If all the Observation is equal to $-\frac{1}{7}$, then the hm is equal to

(a) 1 (b) $\frac{1}{5}$ (c)-5 (d) none of these

(v) Harmonic mean of -(2n+3), ..., -1, 0, 1, ... , (2n-1) is

(a) -1 (b) 0 (c) $\frac{n-1}{2}$ (d) ∞

(vi) Harmonic mean of religion of several people

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

(vii) All the mean can always be calculated of a set having observation

(a) countably infinite (b) uncountably infinite

(c) uncountably finite (d) none of these

(viii) If $5x=9y^2$ 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) The combined mean depends upon the mean of

(a) 1^{st} set (b) 2^{nd} set (c) both (d)none of these

(x) The composite mean is less than the harmonic mean of the given sets which is

(a) maximum (b) minimum (c) both (d) none of these

(xi) The composite mean is greater than the harmonic mean of the given sets which is

(a) maximum (b) minimum (c) both (d) none of these

(xii) The sum of differences of harmonic mean from to all the observations except one value is

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

(xiii) Theres are 10 observations with harmonic mean 3. If 0.3 is added to all the observations then the arithmetic 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 added by 4 then the sum of the reciprocal of those are

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

(xv) The suitable measure to find the average of all measure is

(a) AM (b) GM (c) HM (d) none of these

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