ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-13

SUBJECT – STATISTICS

Term : 1st

Topic – CENTRAL TENDENCY **Class: XI**

Full Marks: 15 **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 measure of 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 AP (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) uncountably finite (b) uncountably infinite

(c) countably finite (d) none of these

(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 of ratio of of harmonic mean from to all the observations is

(a) -1 (b) 1 (c) 0 (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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