ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-11

SUBJECT – STATISTICS

Term : 1st

Topic – CENTRAL TENDENCY **Class: XI**

Full Marks: 15 **Date:01 .07. 2020**

Q1. Select the correct alternative of the following questions.

(i) The marks of 5 students in a class test are 2, 4, 8, 16. A suitable measure of these marks is

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

(ii) The GM of $2, 2^2, \ldots, 2^9$ is

(a) 32 (b) 64 (c) 124 (d) none of these

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

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

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

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

(v) Geometric mean of (–2n),-(2n-1), ..., -1, 0, 1, ... , (2n-1),2n is

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

(vi) Geometric mean of religion of several people

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

(vii) Geometric 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 and geometric mean of x is 7, then geometric mean of y is

(a) 0 (b)1 (c) 5 (d) none of these

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

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

(x) The combined geometric mean lies between the geometric 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 geometric mean is

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

(xii) The product of ratio of of geometric mean from to all the observations is

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

(xiii) There are 10 observations with geometric mean 3. If 3 is divived to all the observations then the geometric mean of the new set is

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

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

(a)11 (b)1 2 (c) 16 (d) none of these

(xv) if there are two sets of observations with n values and geometric mean respectively $\frac{1}{5}$ and 5 then the composite geometric mean is

(a) -5 (b) 1 (c) 5 (d) none of these

Prepared by
Sanjay Bhattacharya