ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-19

SUBJECT – STATISTICS

Term : 1st

Topic – Dispersion **Class: XI**

Full Marks: 15 **Date:25 .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 range is

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

(ii) The range 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, 4,4, 7, 7, 8, 23. The mode is

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

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

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

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

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

(vi) Range of religion of several people

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

(vii) Range 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 and range of x is 7, then range of y is

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

(ix) The combined range depends upon the

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

(x) The combined range is less than the range of the given sets which is

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

(xi) The combined mean deviation 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 range 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 range 3. If 0.3 is added to all the observations then the range of the new set is

(a) -30 (b) 10 (c) 30 (d) none of these

(xiv) There are 10 observations with range 4. If all the observations be added by 4 then the mode of the new set is

(a)0 (b) 2 (c) 4 (d) none of these

(xv) The suitable shoe size to be stocked in the shoe shop is determined by the measure

(a) AM (b) Mean deviation (c) Range (d) none of these

Prepared by
Sanjay Bhattacharya