ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTION OF WORKSHEET- 32

SUBJECT – STATISTICS

Term : Final

Topic – Dispersion **Class: XI**
Full Marks: 15 **Date:23 .01. 2021**

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) 1st set (b) 2nd set **(c) both** (d)none of these

(x) The mean deviation is minimum when taken about

(a) mean **(b) median** (c) mode (d) none of these

(xi) The combined mean deviation is greater than the geometric mean of the given sets which is

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

(xii) The sum of differences of mean deviation about median 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 mean deviation about mode 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 mean deviation about 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) Mode (b) Mean deviation (c) Range (d) none of these

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