ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-20

SUBJECT – STATISTICS

Term : 1st

Topic – Dispersion **Class: XI**

Full Marks: 15 **Date:01 .08. 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 mean devaviation about mean is

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

(ii) The mean deviation 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 mean deviation about median is

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

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

(a) 0 (b) $\frac{1}{5}$ (c)-5 (d) none of these

(v) Mean deviation about mean of -(2n+3), ..., -1, 0, 1, ... , (2n-1) is

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

(vi) Mean deviation about mean of religion of several people

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

(vii) Mean devaviation about 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 and mean deviation about mean of x is 7, then mean deviation about mean of y is

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

(ix) The combined mean deviation about mean depends upon the

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

(x) The combined mean deviation about mean 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 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 mean from to all the observations except one value is

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

(xiii) There are 10 observations with range 3. If 0.3 is added to all the observations then the mean deviation about mean of the new set is

(a) 3.3 (b) 10 (c) 30 (d) none of these

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

(a)4 (b) 8 (c) 16 (d) none of these

(xv) The observations are 1, 3, 4, 5, 6, 29 then mean deviation about mean

(a) 0 (b) 7 (c) 8 (d) none of these

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