ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET- 33

SUBJECT – STATISTICS

Term : Final

Topic – Dispersion **Class: XI**
Full Marks: 15 **Date:30 .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 mean deviation about mode is

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

(ii) The CV 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 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 CV is equal to

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

(v) Inter quartile range of -(2n+3), ..., -1, 0, 1, ... , (2n-1) is

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

(vi) MD of caste of several people

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

(vii) Median 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 sd depends upon the

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

(x) The CV is minimum when taken about

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

(xi) The combined CV 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 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 CV 3. If 0.3 is added to all the observations then the CV about mode of the new set is

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

(xiv) There are 10 observations with coefficient of mean deviation 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 measure used to compare the dispersion between two sets is

(a) CV (b)mean deviation (c) Range (d) none of these

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