



ST. LAWRENCE HIGH SCHOOL
A JESUIT CHRISTIAN MINORITY INSTITUTION



SOLUTION OF WORKSHEET- 33

SUBJECT - STATISTICS

Term : Final

Topic - Dispersion
Full Marks: 15

Class: XI
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 $-(2n+3), \dots, -1, 0, 1, \dots, (2n-1)$ 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) 1st set (b) 2nd 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) There 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

Prepared by
 Sanjay Bhattacharya