ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORKSHEET-18

SUBJECT – STATISTICS

Term : 1st

Topic – CENTRAL TENDENCY **Class: XI**

Full Marks: 15 **Date:08 .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 mode is

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

(ii) The mode 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, 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 mode is equal to

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

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

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

(vi) Mode of religion of several people

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

(vii) Mode can always be calculated of a set having observation

(a) countably infinite (b) uncountably infinite

(c) uncountably finite (d) none of these

(viii) If $5x=9y^2$ and mode of x is 7, then harmonic mean of y is

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

(ix) The combined mode depends upon the

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

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

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

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

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

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

(a)0 (b) 2 (c) 8 (d) none of these

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

(a) AM (b) Median (c) Mode (d) none of these

Prepared by
Sanjay Bhattacharya