SOLUTION OF WORKSHEET-19

SUBJECT – STATISTICS

Term : 1st

Topic – Dispersion   **Class: XI**
Full Marks: 15   **Date:25 .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 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 combined range 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 harmonic mean of the given sets which is
(a) maximum (b) minimum (c) both   **(d) none of these**

(xii)   The sum of differences of range 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 range 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 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) AM   (b) Mean deviation   **(c) Range**   (d) none of these

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