## WORKSHEET- 33

## SUBJECT – **STATISTICS**

Term : Final

**Topic – Dispersion**  Class: XI
**Full Marks: 15**  Date:25 .01. 2021

Q1.  Select the correct alternative of the following questions.

(i)  The marks of 5 students in a class test are 2,3, 4, 7, 8, 11. The mean deviation about mean is

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

(ii)  The mean deviation about mean 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 square deviation about mean is

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

(iv)  If all the Observation is equal to $-\frac{3}{7}$, then the mean deviation about mean is equal to

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

(v)  Mean deviation about mean is -(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)   The mean deviation 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 range of y is 10, then range of x is
(a) 0          (b)1          (c)0. 5          (d) none of these

(ix)    The combined range depends upon the
(a) 1$^{st}$ set      (b) 2$^{nd}$ 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 measure used to compare the dispersion between two different situations is
(a) CV          (b) Mean deviation     (c) Range          (d) none of these


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