IX – Mathematics Assignment No – 05 – Statistics

Measures Of Central Tendency

M. C. Q. Type

Choose the Correct Choice from given Choices

(Q1.) Find the Mode of the following data
14, 25, 14, 28, 18, 17, 18, 14, 23, 22, 14, 18 is

(i) 16 (ii) 15 (iii) 14 (iv) 13

(Q2) The following data is arranged in ascending order
29, 32, 48, 50, x, $x+2$, 72, 78, 84, 95
If the median of the data is 63, the value of x is

(i) 59 (ii) 60 (iii) 61 (iv) 62

(Q3) The median of the following data is 72, 68, 42, 33, 35, 39, 40, 41, 65, 69

(i) 41.5 (ii) 41.0 (iii) 39.5 (iv) 39

Cont-Pg-2

(Q4) The mean of 13 observations is 14. If the mean of the first 7 observations is 12 and that of the last 7 observations is 16. The 7th observation is

(i) 15 (ii) 14 (iii) 13 (iv) 12

(Q5) Take any 5 numbers of your choice and Find the value of $\sum_{i=1}^{5}(x_i - \bar{x})$, is

(i) 0 (ii) 1 (iii) 2 (iv) 3

(Q6) For what value of x, the mode of the following data is 10?

7, 6, 10, 8, 10, x, 7, 5, 12, 14

(i) 10 (ii) 11 (iii) 12 (iv) 7

(Q7) The median of 61, 58, 67, 60, 55, 72, 50, 52. is

(i) 57 (ii) 58 (iii) 59 (iv) 60

Cont-Pg-3 →

(Q8) A student got the following marks in mathematics as follows (out of 50)

48, 32, 36, 42, 38, 35, 39, 49, 34, 14, 32, 37, 31

What should he expect in the next weekly test out of the following?

(i) Between 40–50 (ii) Between 30–40

(iii) Between 20–30 (iv) Between 50–60

(Q9) The relation between mean, mode and median is

(i) Mode = 3 Med. − 2 Mean (ii) Mean = 3 Med. − 2 Mode

(iii) Median = 3 Mean − 2 Mode (iv) none of these

(Q10) The difference between old median and new median is, "if the data is 31, 15, 19, 12, 30, 45, 60, 50, 25, 40". Find its median. Now in this data if 40 is replaced by 20, Find new median. The difference is (of medians)

(i) 6 (ii) 5 (iii) 4 (iv) 3

(Q1) (iii) (Q2) (iv) (Q3) (i)	(Q4) (ii) (Q5) (i) (Q6) (i)	(Q7) (iii) (Q8) (ii) (Q9) (i)	(Q10) (iv)	