

Times: 3 Hours

PART – A
(Short Answer Type)

Max. Marks: 80

Note: Answer any five questions.

(5 x 4 = 20 Marks)

1. Define Statistics in singular sense
2. How Median is calculated for individual series?
3. What are the objectives of measuring Dispersion?
4. Write in detail about Kurtosis.
5. Explain the importance of correlation
6. What are the steps involved in AM for discrete series under Direct Method?
7. List out few functions of Statistics.
8. What are the Merits of Least Square Method.

PART – B
(Essay Answer Type)

Note: Answer all the questions.

(5 x 12 = 60 Marks)

9. a) Define Statistics. Explain the importance of Statistics.
(OR)
b) Explain the various methods of Data collection?
10. a) Define Measure of Central Tendency. State the characteristics of Central Tendency
(OR)
b) Calculate the Arithmetic Mean from the following data:

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No. of students	33	53	108	221	153	322	439	526	495	50

11. a) From the following information calculate standard deviation:

X	4.5	14.5	24.5	34.5	44.5	54.5	64.5
Y	1	5	12	22	17	9	4

(OR)

- b) Calculate Standard Deviation and coefficient of Variation from the following data:

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of students	5	7	14	28	12	9	6	2

12. a) Explain in brief about Skewness and its classification.
(OR)
b) What are the advantages and disadvantages of Skewness and Kurtosis?

13. a) Explain various types of Correlation.

(OR)

- b) Find Karl Pearson's Coefficient of Correlation for the following data:

X	65	66	67	67	68	69	70	72
Y	67	68	65	68	72	72	69	71
