Roll No. ....

Subject Code—8130

M. Com. (First Year) EXAMINATION

(Main/Re-appear Batch 2009 Onwards)

MC-106

BUSINESS STATISTICS

Time : 3 Hours   *Maximum Marks : 70*

Section A

Note : Attempt any *Seven* questions.   7×5=35

1. What is Central Tendency ? What are properties of good average ?

2. What are types of correlation ?

3. Discuss the problems of constructing index numbers.

4. Explain conditional probability with suitable examples.

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5. Discuss Poisson Probability Distribution.

6. What is sampling distribution of mean ?

7. Explain F-test.

8. What are the causes of variations in quality ?

9. Explain fraction defective chart.

10. Distinguish between parametric and non-parametric test.

Section B

Note : Attempt all the questions.

11. What is dispersion ? Explain the methods of measuring dispersion. What are its applications in business ?   **12**

Or

Obtain the two regression lines for the following data :

X : 1 2 3 4 5 6 7 8 9

Y : 9 8 10 12 11 13 14 16 15

12. It is known that 20 per cent of the males and 5 per cent of females are unemployed in a certain town consisting of an equal number of males and females. A person is selected at random and is found to be unemployed. What is the probability that he is (i) Male (ii) Female ? **12**

Or

What is the significance of formulating a hypothesis in research ? Discuss hypothesis testing procedure.

13. The following table gives the number of defectives in 10 samples of size 100 each. Work out control limits for p-chart and np-chart : **11**

Sample No.   : 1 2 3 4 5 6 7 8 9 10

No. of Defectives : 5 7 9 8 9 6 11 6 13 4

Or

What is a Time Series ? Explain the components and applications of time series analysis.