Unit IV

8. What is Statistical Quality Control (SQC) ? Discuss the significance of SQC. Also explain the X and R charts.

9. Write notes on the following :

(a) Control charts for attributes

(b) Index numbers.

Subject Code—0284

M. B. A. EXAMINATION

(Batch 2018 Onwards Main)

(Second Semester)

STATISTICAL ANALYSIS

CP-205

Time : 3 *Hours*   *Maximum Marks :* 70

Note : Attempt *Five* questions in all, selecting *one* question from each Unit in addition to compulsory Q. No. **1**. All questions carry equal marks.

1. Explain the following :

(a) Conditional Probability

(b) Non-sampling Error

(c) Standard Error

(d) Regression Model

(e) Splicing Index Numbers

(f) Poisson Distribution

(g) Large samples *vs.* Small samples.

Unit I

2. Define the term Dispersion. Explain the measures of dispersion with their uses and limitations with suitable examples.

3. What do you mean by Probability Theory ? Discuss the properties and uses of Normal Distribution in detail.

Unit II

4. What do you mean by Primary Data ? Discuss the advantages and techniques of primary data collection in detail.

5. Write notes on the following :

   (a) Non-Probability sampling methods

   (b) Central Limit Theorem.

Unit III

6. The following table shows the ages (X) and blood pressure (Y) of 8 persons :

X	Y
52	62
63	51
45	50
36	25
72	78
65	41
47	59
25	32

Obtain the regression equation of Y on X and find the expected blood pressure of a person who is 37 years old.

7. What is Correlation Analysis ? Discuss the characteristics, causes and types of correlation in detail.