Roll No. ....

Subject Code—9587-X

M.B.A. EXAMINATION

(Second Semester)

(Re-appear)

(2 Years–Old Scheme)

CP-205

STATISTICAL ANALYSIS

Time : 3 Hours   *Maximum Marks : 70*

Note : Attempt any *Five* questions. All questions carry equal marks.

1. Quickly outline the concepts of central tendency, dispersion, skewness and kurtosis. Compute all these with the help of an imaginary illustration.

2. The arithmetic mean and standard deviation of a series of 40 items were as 28 cm and 9 cm, respectively. While calculating these, an item 68 cm was misread as 60. Find the correct mean and standard deviation.

(1-49)   **P.T.O.**

3. Explain the three approaches to the definition of probability, bringing out how these are complementary. Give suitable examples.

4. A problem of statistics is given to the students of MBA (I year, II year and III year students). Their chances of solving the problem are 1/5, 1/4 and 1/5 respectively. Find the probability that the problem will be solved.

5. "Regression and correlation are two sides of the same coin." Explain.

6. Find out the regression equation of X on Y and Y on X from the data given below :

Market Price of X	Market price of Y
129	220
130	227
134	228
136	230
138	225

Also compute the coefficient of correlation.

7. Bring out a number of the key complexities being faced by you while building index numbers.

8. Reconstruct the following indices using 2002 as the new base year :

Year	Index
1998	100
1999	130
2000	167
2001	160
2002	197
2003	218
2004	240
2005	256

9. Discuss and illustrate the difference between descriptive and inferential statistics. Which one is more relevant and why ? Also give a brief account of F and Chi-square tests of hypothesis with some examples.