SUBJECT CODE : **EC/PC/RM24**

M. A. DEGREE EXAMINATION, APRIL 2008
BRANCH III – ECONOMICS
SECOND SEMESTER
COURSE   : **MAJOR - CORE**
PAPER   : **RESEARCH METHODOLOGY – COMPUTER**
                      APPLICATIONS - I
TIME   : **2 HOURS**   MAX. MARKS :   60

SECTION – A

ANSWER ANY FOUR QUESTIONS. EACH ANSWER NOT TO EXCEED 300 WORDS.   **(4 X 5 =20)**

1.   Discuss various methods of collecting primary data.
2.   Explain how you would undertake data analysis using Excel package.
3.   Distinguish between simple, partial and multiple correlation with suitable examples.
4.   Explain how you would carry out multiple regression for a given set of data.
5.   What is conditional probability? Discuss Baye's theorem.
6.   Explain the properties of normal distribution.

SECTION – B

ANSWER ANY TWO QUESTIONS. EACH ANSWER NOT TO EXCEED 1200 WORDS.   **(2 X20 =40)**

7.   Explain how you would test a hypothesis. What are Type I and Type II errors?

8.   The following is the units produced by 4 machines in a factory by 4 employees. Using Analysis of Variance i) test the hypothesis that the mean production is the same for the four machines. ii) test the hypothesis that the employees do not differ with respect to mean productivity.   [Table value of F v1=3 and v2=9, at 5% level=3.86]

EMPLOYEE	TYPE OF MACHINES			
	M1	M2	M3	M4
A	40	36	45	30
B	38	42	50	41
C	36	30	48	35
D	46	47	52	44

9.   Fit a straight line trend for the following data. Estimate the number of passengers for 2009 and 2010.

Year	2000	01	02	03	04	05	06	07
No.of Passengers (in million)	6.7	5.3	4.3	6.1	5.6	7.9	5.8	6.1

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