Exam. Code: 0311 Sub. Code: 25378

2124 M.Com. (E.& F.B.) First Semester FB-104: Business Research

Time allowed: 3 Hours

Max. Marks: 80

NOTE: Attempt five questions in all, selecting atleast two questions from each Unit. All questions carry equal marks. Use of simple non-programmable calculator is allowed.

1-1-1.

UNIT-I

- 1. Define Research, Explain in detail the research process?
- Discuss the various methods of collecting primary data.
- 3. The sales data of an item of six firms before and after a special publicity and promotion campaign are as under:

Firms	Λ	В	С	D	Е	F
Before Campaign	53	28	31	48	50	42
After Campaign	58	29	30	55	56	45

Can the campaign be judged to be success? Test at 5% significance level.

- 4. Two groups X and Y consists of 100 people each affected in disease. A serum is given to groups X and Y, 75 people from group X and 65 people from group Yare recovered. Test the hypothesis that the serum helps to cure the disease.
- 5. Explain the sampling and non-sampling errors?

UNIT-II

- Given N=10, Σx=140, Σ y=150, Σ (x-10)²=180, Σ (y-15)²=215, Σ (x-10) (y-15)=60
 Find Karl Pearson co-efficient of correlation and estimate the value of y when x=15.
- 7. What are the assumptions for estimating the parameters of a simple regression model?
- 8. Draw the mean chart and range chart from the following data and state your conclusion:

Sample No.	1	2	3	4	5	6	7	8	9	10	Total
Mean	12.8	13.1	13.5	12.9	13.2	14.1	12.1	15.5	13.9	14.2	135.3
Range	2.1	3.1	3.9	2.1	1.9	3.0	2.5	2.8	2.5	2.0	25.9

Given n=5, A_2 = .577, D_4 = 2.115, D_3 =20

- 9. What is Statistical Quality Control? Explain the tools of Statistical Quality control?
- 10. What do you mean by Decision Making under uncertainty? What are its assumptions and limitations?