

21ECO1C3L**M.A. I Semester Degree Examination, April/May - 2023****ECONOMICS****Quantitative Techniques for Economics**

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions. Each question carries **equal** marks
Question No. 1 is Compulsory.

1. Explain in details various methods of collecting primary data. **14**

2. Runs scored by two batsmen A and B in 9 consecutive matches is given below : **14**

A	85	20	62	28	74	5	69	4	13
B	72	4	15	30	59	15	49	27	26

Specify which of the batsmen is more consistent ? Which of them is better run getter ?

3. The following table gives the normal weight of a baby during the first six months of life : **14**

Age (months)	0	2	3	5	6
Weight (lbs)	5	7	8	10	12

Estimate regression of weight of baby on age. Specify the weight of baby at age = 4 months.

4. Explain various methods of estimating secular trend. **14**

5. Explain the concepts of null and alternate Hypothesis. **14**

6. Calculate the spearman's Rank correlation coefficient for the following data : **14**

Economics	78	36	98	25	75	82	92	62	65	39
Statistics (marks)	84	51	91	69	68	62	80	52	35	49

7. Explain in detail the importance of time series analysis in economics. **14**

8. (a) Explain types of errors in Hypothesis testing. **5**

(b) What is Kurtosis ? Explain with help of diagram. **5**

(c) Give an example for one tail test and two tail test. **4**