

**B. A. DEGREE END SEMESTER EXAMINATION - OCTOBER 2024****SEMESTER 5 : ECONOMICS****COURSE : 19U5CRECO7 : QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS***(For Regular 2022 Admission and Supplementary 2021/2020/2019 Admissions)*

Time : Three Hours

Max. Marks: 75

**PART A****Answer All (1 mark each)**

1. Define Range.
2. What is skewness?
3. Define statistics in plural sense.
4. What is a Schedule ?
5. What is multiplicative model of time series?
6. Regression equation on x on y.
7. Define Primary data.
8. The temperature in ° F on 20 days during the month of June was as follows:  
70 ° F, 76° F, 76 ° F, 74° F, 70° F, 70 ° F, 72° F, 74 ° F, 78° F, 80° F, 74 ° F, 74° F, 78 ° F, 76° F,  
78° F, 76 ° F, 74° F, 78 ° F, 80° F, 76° F  
What is the mode of the temperatures for the month of June?
9. Partial correlation.
10. What is a sample?

**(1 x 10 = 10)****PART B****Answer any 8 (2 marks each)**

11. What is classification of data?
12. What do you mean by secular trend?
13. What is a general purpose table?
14. Properties of regression lines.
15. What is cumulative series?
16. What is a Symmetrical distribution?
17. Define Standard Deviation.
18. Define direct personal investigation.
19. How do you interpret the sign of the coefficient of correlation?
20. Define variable and attribute.

**(2 x 8 = 16)****PART C****Answer any 5 (5 marks each)**

21. Differentiate between schedules and questionnaires.
22. Distinguish between mean deviation and standard deviation.
23. Explain the sources of Primary data.
24. Compare and contrast skewness and kurtosis.

25. In an aptitude test two judges rank the 10 competitors in the following order:

Individual	1	2	3	4	5	6	7	8	9	10
Ranking by Judge I	6	4	3	2	1	7	9	8	10	5
Ranking by judge II	4	1	6	7	5	8	10	9	3	2

Is there any concordance between the two judges?

26. Apply the method of semi-averages for determining trend to the following data.

Years	1963	1964	1965	1966	1967	1968
Sales (Thousands)	20	24	22	30	28	32

27. What are the functions of an average?

**(5 x 5 = 25)**

#### **PART D**

**Answer any 2 (12 marks each)**

28. Which is the most accurate method of measuring trend? Why?
29. Explain the different types of Probability and Non probability sampling.
30. What is correlation? Define its different types. How you measure correlation between variables?
31. Explain the method of constructing Lorenz curve. Give clearly its uses and limitations.

**(12 x 2 = 24)**