

B. A. DEGREE END SEMESTER (SAY) EXAMINATION - MAY 2026**SEMESTER 5 : ECONOMICS****COURSE : 19U5CRECO7 - QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS***(For Supplementary (SAY) 2023 Admission)*

Time : Three Hours

Max. Marks: 75

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

1. Define regression equation of y on x.
2. Define statistics in singular sense.
3. Give any two examples of time series.
4. What is a sample?
5. Define population.
6. Find the median value for the following data:
25900, 26950, 27020, 27200, 28220, 32500
7. What is meant by assumed mean?
8. Name any three two dimensional diagrams.
9. Define Bowley's coefficient of skewness.
10. Positive correlation

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

11. Find out the value of quartile deviation and its coefficient from the following data:

Roll number	1	2	3	4	5	6	7
Marks	20	28	40	12	30	15	50

12. What is positive skewness?
13. What are the merits and demerits of mode?
14. Under what circumstances is the rank correlation used?
15. What is indirect oral investigation?
16. Explain linear and non-linear correlations.
17. What do you mean by irregular variations?
18. Define non-sampling error.
19. What is an ogive?
20. What is a frequency polygon? Graphically represent it.

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

21. What are the characteristics of an ideal classification?
22. What are the merits and demerits of direct personal investigation?

23. The following data give the monthly income and expenditure on food of 10 families.

Income	120	90	83	150	130	140	110	95	75	105
Expenditure	40	36	40	45	40	44	45	38	50	35

Calculate the linear regression of expenditure of food (y) on Income (x).

24. What do you mean by measures of dispersion? Explain the different methods used for measuring dispersion.
25. Why is standard deviation considered to be the best measure of dispersion?
26. Assuming a four yearly cycle, calculate the trend by the method of moving averages from the following data relating to the production of tea in India.

Year	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Production (lbs.)	464	515	518	467	502	540	557	571	586	612

27. Find the Quartile coefficient of skewness for the following values.
28,30,13,15,14,34,50,90,15,21.

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Explain the various methods of studying correlation.
29. Explain the importance of Lorenz curve in the study of income inequalities of different groups of people in a region.
30. Examine the different methods of collecting primary data. Write the merits and demerits of each method.
31. Draw a trend line by the method of semi-averages from the following data:

Years	1962	1963	1964	1965	1966	1967	1968	1969
Sales (Thousand Units)	100	105	109	96	102	108	112	114

(12 x 2 = 24)