B. A. DEGREE END SEMESTER EXAMINATION - OCTOBER 2025

SEMESTER 5 : ECONOMICS

COURSE : **19U5CRECO7 : QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS**

(For Regular 2023 Admission and Supplementary 2022/ 2021/ 2020/ 2019 Admissions)

Time : Three Hours   Max. Marks: 75

PART A
Answer All (1 mark each)

1. Define statistics in singular sense.
2. Positive correlation.
3. Find the median value for the following data:
   25900, 26950, 27020, 27200, 28220, 32500
4. Define correlation coefficient.
5. What are the different types of data?
6. What is a Schedule?
7. Name the different measures of central tendency.
8. What is a questionnaire?
9. Define Bowley's coefficient of skewness.
10. Define trend.

(1 x 10 = 10)

PART B
Answer any 8 (2 marks each)

11. Compute coefficient of Quartile deviation from the following data:

Marks	10	20	30	40	50	60
No. of Students	4	7	15	8	7	2

12. What are the uses of skewness?
13. Define sampling error.
14. What is a scatter diagram?
15. Define Median.
16. What are special purpose tables?
17. What is random sampling?
18. What are the factors to be considered while choosing between primary and secondary data?
19. What do you mean by spurious correlation?
20. What do you mean by secular trend?

(2 x 8 = 16)

PART C
Answer any 5 (5 marks each)

21. What are the merits and demerits of free hand curve method of measuring trend?
22. Find the Quartile coefficient of skewness for the following values.
    28,30,13,15,14,34,50,90,15,21.

23. What are the rules in constructing tables?

24. Represent the following figures through a pie diagram.

Plan Period	1st plan	2nd plan	3rd plan	4th plan
Outlay (in crore)	1960	4600	7500	16000

25. Find Spearman's rank coefficient of correlation from the following data:

X	50	66	34	21	15	79	42
Y	31	64	53	41	17	73	29

26. Calculate the median for the following frequency distribution:

Marks	No. of Students	Marks	No. of Students
45 - 50	10	20 - 25	31
40 - 45	15	15 - 20	24
35 - 40	26	10 - 15	15
30 - 35	30	5 - 10	7
25 - 30	42		

27. Calculate standard deviation from the following observations:
240.12, 240.13, 240.15, 240.12, 240.17, 240.15, 240.17, 240.16, 240.22, 240.21

(5 x 5 = 25)

PART D
Answer any 2 (12 marks each)

28. Describe the different methods of collecting data indicating the merits demerits of each of them.

29. Plot the following data and ascertain trend by the method of semi-averages.

Years	1960	1961	1962	1963	1964	1965	1966
Production (Million tonnes)	100	120	95	105	108	102	112

30. Find the interquartile range and the coefficient of deviation from the following data:

Marks above	0	10	20	30	40	50	60	70	80
No. of Students	150	140	100	80	80	70	30	14	0

31. Elucidate on regression analysis.

(12 x 2 = 24)