



QP CODE: 25021052



Reg No :

Name :

**B.A DEGREE (CBCS) REGULAR / REAPPEARANCE / MERCY CHANCE
EXAMINATIONS, FEBRUARY 2025**

Sixth Semester

CORE COURSE - EC6CRT01 - QUANTITATIVE ECONOMICS II

Common for B.A Economics Model II Foreign Trade & B.A Economics Model II Insurance

2017 Admission Onwards

1BD52E39

Time: 3 Hours

Max. Marks : 80

Part A

Answer any ten questions.

Each question carries 2 marks.

1. All facts numerically expressed are not Statistics. Indicate with reason whether the statement is correct.
2. Distinguish between classification and tabulation.
3. Calculate weighted arithmetic mean of the following data:

Price (Rs)	3	5	10	15	20	25
weight	6	8	4	5	10	7

4. How Median is calculated for a Continuous data?
5. A cyclist pedals from his house to college at a speed of 6 k.m.p.h and back from the college to his house at 10 k.m.p.h. Find the average speed.
6. Why measures of dispersion is called second order average?
7. Distinguish between positive and negative correlation.
8. Define coefficient of non determination.
9. In a study of regression equations following values were obtained. Regression coefficient of y on x = 0.25, $r = 0.42$, s.d (y) = 4, find standard deviation of x.
10. Define weighted Index Numbers?
11. Define simple Index Numbers.
12. Define Factor Reversal test.





(10×2=20)

Part B

Answer any **six** questions.

Each question carries **5** marks.

- 13. State the differences between Questionnaire and Schedule.
- 14. What are the merits and limitations of a diagrammatic representation of statistical data?
- 15. Explain how should you select an appropriate average.
- 16. What are the utilities of Median and Mode?
- 17. Compute Quartile Deviation and its Coefficient from the following data:

Weight (lbs)	58	59	60	61	62	63	64	65	66
No. of students	15	20	32	35	33	22	20	10	8

- 18. What is a Lorenz curve? Explain the steps to be adopted while drawing a Lorenz Curve.
- 19. Distinguish between correlation and regression.
- 20. Write short note on the Components of Time Series.
- 21. Explain briefly the "Least Square Method" of Time Series Analysis.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

- 22. Describe the different methods of collecting data indicating the merits and demerits of each of them.
- 23. A factory produces two types of electric lamps A and B. In an experiment relating to their life, the following results were obtained:

Life (years)	5-7	7-9	9-11	11-13	13-15	Total
Lamp A	5	11	26	10	8	60
Lamp B	4	30	12	8	6	60

Compare the variability of th life of two models using coefficient of variation.

- 24. From the following data obtain the two regression equations:

Sales	91	97	108	121	67	124	51	73	111	57
Purchases	71	75	69	97	70	91	39	61	80	47

Also find coefficient of correlation and estimate the value of purchase when sales = 85





25. Calculate Fisher's Ideal Index Number for the following data and prove whether it satisfies both Time Reversal Test and Factor Reversal Test.

Commodity	Base Year		Current Year	
	Quantity	Price	Quantity	Price
A	15	10	15	10
B	18	5	19	6
C	21	7	21	8
D	6	16	6	11

(2×15=30)

