

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

B.A. Economics - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - II

**20UECCT2004 - Statistics for Economists-II**

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

### Section B

Answer any **SIX** questions ( $6 \times 5 = 30$  Marks)

1. Discuss the differences between population and sample.
2. Explain the errors of sampling.
3. Solve the rank correlation for the following data.

Rank of X	Rank of Y
1	3
3	2
2	1

4. Explain the importance of regression analysis.
5. Predict the Paasche's Index Value for the following data.

Commodity	2023		2024	
	Price	Quantity	Price	Quantity
A	3	10	5	12
B	5	8	6	10
C	2	12	4	10

6. Prepare a chart for various phases of cyclical time series.
7. Explain the uses of time series analysis.
8. Diagnose the limitations of correlation coefficient.

### Section C

Answer any **THREE** questions ( $3 \times 10 = 30$  Marks)

9. Describe the various methods of sampling.

**Contd...**

10. Prepare a Pearson's correlation coefficient for the following values.

X	2	3	2	4	6	9	5	7
Y	3	4	2	9	8	6	3	5

11. Ascertain the following data to find regression lines X on Y and Y on X by non-deviation method.

X	3	4	6	5	2	7	9	2
Y	4	8	3	7	6	2	5	9

12. Compute the fisher's Ideal index number with Laspeyres and Paasche's for the given table.

Product	2023		2024	
	Price	Quantity	Price	Quantity
Rice	2	6	3	5
Milk	4	4	5	8
Bread	6	12	7	7
Apple	8	10	9	7

13. Criticize the components of time series analysis with suitable diagram.

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