

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. END SEMESTER EXAMINATIONS APRIL - 2022

SEMESTER - II

08UECCT2004 - Statistics for Economists – II

Total Duration : 3 Hrs.

Total Marks : 60

Section A

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

1. What is meant by sampling errors?
2. Predict the limitation of correlation.
3. Describe the 2 lines of regression with a suitable formula.
4. State the use of index numbers.
5. Explain the significance of time series analysis.
6. Compute the properties of correlation coefficient.
7. Interpret the cost of living index number from the following group data:

Group	Weights	Group Index number for a given year
Food	47	247
Fuel and Light	7	293
Clothing	8	89
House rent	13	100
Miscellaneous	14	236

8. Examine the semi average method of measuring trend.

Section B

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

9. Explain the different types of sampling.
10. Compute the coefficient of correlation between x and y from the following data:

x	1	2	3	4	5	6	7
y	9	8	10	12	11	13	14

11. Determine the line of regression of y on x:

x	1	2	3	4	5	8	10
y	9	8	10	12	14	16	15

contd...

12. Prepare Laspeyre's Index number, Paasche's price index number and Marshall-Edgeworth Index from the following data:

Commodity	1980		1981	
	Price (in Rs.)	Quantity (in Kgs.)	Price (in Rs.)	Quantity (in Kgs.)
A	20	15	30	10
B	30	18	40	15
C	10	20	45	10
D	15	25	25	5

13. Evaluate the various components of time series analysis.
