

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. (Eco) END SEMESTER EXAMINATIONS NOVEMBER - 2023

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. State the merits and demerits of systematic sampling?
2. Predict the coefficient of correlation for the following data by Spearman's rank correlation method.

X	19	24	12	23	19	16
Y	9	22	20	14	22	18

3. Predict the significance of regression analysis.
4. Describe the various types of index numbers.
5. Interpret the trend values by the method of semi averages.

Year	1993	1994	1995	1996	1997	1998	1999	2000
Net profit(Rs. lakhs)	38	39	41	43	40	39	35	25

6. What are the properties of coefficient of correlation.
7. Prepare the regression equation of X on Y from the following data.

X	10	12	13	12	16	15
Y	40	38	43	45	37	43

8. Examine the merits and demerits of time series analysis.

Section C

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

9. Explain the various types of non-probability sampling.
10. Compute Karl Pearson's correlation coefficient if $N = 50$, $\Sigma X = 75$, $\Sigma Y = 80$, $\Sigma X^2 = 130$, $\Sigma Y^2 = 140$ and $\Sigma XY = 128$
11. Diagnose the two regression equation for the following data.

X	4	5	6	8	11
Y	12	10	8	7	5

Contd...

12. Compute (a) Laspyre's (b) Paasche's and (c) Fisher's method of index number for 1990 from the following.

Commodity	Price		Quantity	
	Base year	Current year	Base year	Current year
A	6	10	50	50
B	2	2	100	120
C	4	6	60	60
D	10	12	30	25

13. Examine the various methods used to measure the secular trend.
