

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 APRIL-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. What are the reasons for selecting a sample?
2. Discuss the merits and demerits of sampling
3. What are the types of correlation?
4. Describe the properties of correlation coefficients
5. State the properties of regression coefficients
6. If two regression coefficients are $b_1 = 4 / 5$ and $b_2 = 9 / 20$, then find r ?
7. What are the types of index numbers?
8. Write down the uses of consumer price index.

Section C

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

9. Explain various types of sampling techniques
10. Following are the marks obtained by 10 students in class and calculate rank correlation coefficient between the two subjects

X	70	68	67	55	60	60	75	63	60	72
Y	65	65	80	60	68	58	75	63	60	70

11. Find two regression coefficient from the following data

X	6	2	10	4	8
Y	9	11	5	8	7

12. From the following data compute quantity index by
i) Laspeyre's method ii) Pasche's method iii) Fisher's method

Year	2020		2021	
Commodity	Price	Total Value	Price	Total Value
A	10	100	12	180
B	12	240	15	450
C	15	225	17	340

Contd...

13. Fit a straight line trend by the method of least squares for the following data and also estimate the sales for the year 2023.

Year	2017	2018	2019	2020	2021	2022
Sales	3	8	7	9	11	14
