

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.Sc. Statistics - END SEMESTER EXAMINATIONS APRIL - 2024

SEMESTER -III

20USTCT3006 - Applied Statistics

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Prepare a note on the moving average method of measuring trends.
2. Explain Box-Jenkins method in detail.
3. Discuss the cost of living index number and its uses.
4. Illustrate the functions of the National Statistical Commission.
5. Describe how you identify trends and seasonality in a time series.
6. Sketch the steps involved in the smoothing process.
7. Explain the following terms.
1. Base shifting 2. Splicing 3. Deflating
8. Infer the present structure of the statistical system in India.

Section C

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

9. Describe the least square method of measuring the trend with its merits and demerits.
10. Prepare a note on the Link-relative method of computing the indices of seasonal variations.
11. Examine the different types of forecasting methods.
12. State and prove Time reversal and Factor reversal test.
13. Evaluate the different statistical systems widely used in India.
