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 NOVEMBER -2023
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. Describe the method of semi-average and state its merits.
2. Explain the ratio to trend method.
3. Discuss the Box-Jenkins methodology.
4. Explain the problems involved in the construction of index numbers.
5. List out the present structure of Indian statistical system and its functions.
6. Elaborate the role of forecasting in business.
7. Illustrate with an example the method of least square.
8. Differentiate between weighted and unweighted index numbers with an suitable example.

Section C

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

9. Explain the components of time series.
10. Describe the method of link relative with an example.
11. Explain the methods of forecasting with the time series data.
12. Define (i) base shifting (ii) deflating and splicing of index numbers. Explain and illustrate the same.
13. Discuss agricultural, industrial, trade and labour statistics in detail.

*****