

Roll.No.

20USTCT3006

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 2025
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 additive and multiplicative models of time series.
2. Explain the role of fore casting in business.
3. Compute whether fisher's Ideal index satisfies time reversal and factor reversal tests.
4. Describe Least Square Method and Moving Average Method.
5. Explain the steps involved in the ratio - to - trend method.
6. Prepare the steps in Box-Jenkins methodology.
7. Explain the uses of index numbers.
8. Examine the function of Agricultural Statistics, Industrial Statistics and Trade Statistics.

Section C

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

9. Describe the components of time series.
10. Elaborate the link relative method in detail.
11. Explain the exponential smoothing method.
12. Explain Base shifting, splicing and deflating of index.
13. Evaluate the functions of a CSO, NSSO, and National Statistical Commission (NSC).
