

**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. END SEMESTER EXAMINATIONS NOVEMBER-2022

SEMESTER - III

20USTCT3006 - Applied Statistics

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section A

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

1. Explain moving average method of measuring trend.
2. Illustrate Exponential Smoothing with example.
3. Explain time reversal test and factor reversal test.
4. Give a note on labour statistics.
5. Describe link relative method of measuring seasonal variation.
6. Compare weighted and unweighted index numbers.
7. Write a note on cost of living index number.
8. Comment on the present structure of the Indian statistical systems.

Section B

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

9. Explain the components of time series
 - Secular Trend
 - Seasonal Variation
 - Cyclic Variation
 - Random variation
10. Write a note on Ratio to trend and ratio to moving average method.
11. Describe the steps in forecasting.
12. Give in detail the problems in the construction of index numbers.
13. Explain the functions of CSO and NSSO.

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