**B.Sc. DEGREE EXAMINATION, NOVEMBER 2016.**

**III YEAR — V SEMESTER**

**Major Paper XI— APPLIED STATISTICS**

**Time : 3 hours Max. Marks : 60**

**SECTION A — (10 × 1 = 10 marks)**

**Answer any *TEN* questions.**

1. What is Time Series?
2. Give the multiplicative model of a Time Series.
3. Give any two examples for cyclical variation.
4. Explain variate difference method.
5. What is forecasting?
6. What is a Residual method?
7. Define Index numbers.
8. Which index number is called as an Ideal Index number? Why?
9. Give any two functions of NSSO.
10. Explain Trade statistics.
11. Give the components of Time Series.
12. Explain cost of living Index number.

**SECTION B — (5 × 4 = 20 marks)**

**Answer any *FIVE* questions.**

1. Explain the components of time series with example.
2. Explain the Fitting of a straight line trend by the method of least squares.
3. Give the merits and demerits of Link relative method.
4. List down the uses of cost of living Index Number.
5. Write short notes on Agricultural statistics.
6. Explain the role of forecasting in business.
7. Write short notes on quantity Index Number.

**SECTION C — (3 × 10 = 30 marks)**

**Answer any *THREE* questions.**

1. Explain briefly the methods of measuring trend.
2. Explain Ratio to moving average method.
3. Explain Box- Jenkins model.
4. Briefly explain the problems in the construction of Index Number.
5. Explain the functions of a statistical system in India.

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