**B.Sc. DEGREE EXAMINATION, APRIL 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 meant by a time series?
2. Write any two methods of measurement of trend?
3. Define link relative method.
4. What is meant by simple average method?
5. Define business forecasting.
6. Write any two methods of forecasting?
7. Write down the formula for chain base index number?
8. Define index number.
9. What is NSSO?
10. Define Agricultural statistics.
11. Define seasonal variation.
12. What is meant by cost of living index?

**SECTION B — (5 × 4 = 20 marks)**

**Answer any *FIVE* questions.**

1. Explain the additive model of a time series.
2. Describe Ratio to moving average method.
3. What is the role of forecasting in business?
4. Discuss Time Reversal Test.
5. Explain present structure of the Indian Statistical System.
6. Explain Box-Jenkins Methodology.
7. Briefly discuss the un weighted quantity index.

**SECTION C — (3 × 10 = 30 marks)**

**Answer any *THREE* questions.**

1. Describe the components of time series.
2. Explain the link relative method of computing the indices of seasonal variation.
3. How does the method of exponential smoothing help in business forecasting?
4. Explain the methods of constructing index number.
5. Describe the functions of a statistical system.

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