B.Sc. DEGREE EXAMINATION,NOVEMBER 2018
III Year V Semester
Core Major - Paper XI
APPLIED STATISTICS

Time : 3 Hours   **Max.marks :60**

Section A $(10 \times 1 = 10)$ Marks

Answer any TEN questions

1. Define time series.
2. Define additive model in Time series.
3. What are the methods of measuring variation ?
4. Give the formula to calculate the link relative.
5. What is the role of forecasting in business?
6. Give any two methods of forecasting.
7. Define index numbers.
8. What are the tests for the adequacy of index numbers?
9. What are the function of statistical systems?
10. Define labour statistics.
11. Define multiplicative model in Time serives.
12. Give the formula for factor reversal test.

Section B $(5 \times 4 = 20)$ Marks

Answer any FIVE questions

13. Explain the least square method of measuring trend.
14. Write down the steps for measuring seasonal variation by simple average method.
15. What are the steps involved in smoothing process?
16. Give the uses of index numbers.
17. List out the steps involved in constructing a chain index.
18. Give the functions of National Statistical Commission.
19. Write down the merits and limitations of the ratio-to-trend method.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Briefly explain the components of time series.
21. Explain ratio-to-moving average method with its merits and limitations.
22. Explain the steps in forecasting.
23. Brief the problems in the construction of index numbers.
24. Explain the functions of CSO and NSSO.

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