

B.Sc. DEGREE EXAMINATION, NOVEMBER 2019
III Year V Semester
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.
3. Define simple average method.
4. What is link relative method?
5. Define Box Jenkins methodology.
6. What is exponential smoothing?
7. Define unweighted index numbers.
8. What is fixed base index number?
9. Define communication statistics.
10. What is agricultural statistics?
11. Define ratio to trend method.
12. What is quantity index numbers?

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

Answer any **FIVE** questions

13. Describe the moving average method.
14. Explain Ratio to moving average method.
15. Discuss role of forecasting in business.
16. Describe Time reversal and factor reversal test.
17. Explain about Industrial, Trade and Labour statistics.
18. Describe base shifting, splicing and deflating of index number.
19. Discuss variate difference method

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

Answer any **THREE** questions

20. Explain the method of curve fitting by principle of least squares for
 - (i) Straight line
 - (ii) Exponential curve by ratio to moving average method.
21. Describe about the measurement of seasonal variations.
22. Discuss the exponential smoothing method of forecasting.
23. Describe the methods of constructing index numbers.
24. Explain the statistical system in India and its function.

B.Sc. DEGREE EXAMINATION, NOVEMBER 2019
III Year V Semester
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.
3. Define simple average method.
4. What is link relative method?
5. Define Box Jenkins methodology.
6. What is exponential smoothing?
7. Define unweighted index numbers.
8. What is fixed base index number?
9. Define communication statistics.
10. What is agricultural statistics?
11. Define ratio to trend method.
12. What is quantity index numbers?

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

Answer any **FIVE** questions

13. Describe the moving average method.
14. Explain Ratio to moving average method.
15. Discuss role of forecasting in business.
16. Describe Time reversal and factor reversal test.
17. Explain about Industrial, Trade and Labour statistics.
18. Describe base shifting, splicing and deflating of index number.
19. Discuss variate difference method

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

Answer any **THREE** questions

20. Explain the method of curve fitting by principle of least squares for
 - (i) Straight line
 - (ii) Exponential curve by ratio to moving average method.
21. Describe about the measurement of seasonal variations.
22. Discuss the exponential smoothing method of forecasting.
23. Describe the methods of constructing index numbers.
24. Explain the statistical system in India and its function.