B.Sc. DEGREE EXAMINATION,APRIL 2020
III Year V Semester
Applied Statistics

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

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

Answer any **TEN** questions

1. State the uses of time series.
2. Define 3-yearly moving averages.
3. What do you understand by seasonal variations?
4. Mention the constant factor present in ratio to trend method.
5. What is the need for studying business forecasting?
6. Define exponential smoothing.
7. Define index number.
8. What are the requirements to construct an index number
9. Define official statistics.
10. Write about industrial statistics.
11. Mention about labour statistics.
12. Define chain based index number.

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

Answer any **FIVE** questions

13. Discuss about the components of time series.
14. Describe ratio to trend method.
15. Mention the role of forecasting in today's business world.
16. Explain about cost of living index number.
17. Elaborate in detail about NSSO.
18. Discuss about Unweighted index number.
19. Write a brief note on agricultural statistics.

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

Answer any **THREE** questions

20. Describe the procedure of least square method.

21. Explain about ratio to moving average method.

22. Discuss the Box-Jenkins method.

23. Elaborate the terms (i) Time Reversal Test (ii) Factor Reversal Test

24. Describe about the national statistical commission and its types

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