M.Sc. DEGREE EXAMINATION,NOVEMBER 2018
II Year IV Semester
Core Elective
FORECASTING AND DECISION MAKING TECHNIQUES

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Define business forecasting
2. What are forecasting errors?
3. What is meant by Moving averages?
4. What do you mean by Naïve forecasting?
5. What are the components of time series?
6. What do you mean by irregular variation?
7. What is a ARIMA (0,1,0) model?
8. Define Auto-Regression
9. What do you mean by decision under certainty?
10. Define EVPI
11. Define EMV
12. When do you say the time series data is stationary?

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Describe the role of forecasting in business
14. Discuss briefly about the steps involved in forecasting
15. Explain the simple moving average method of forecasting
16. Write a note on cyclical variation
17. Explain ARMA model
18. Write short notes on stationary ARIMA models
19. Explain in brief about decision tree analysis with an example

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

Answer any **THREE** questions

20. Explain in detail about the methods of forecasting

21. Describe Holt's Winter method of exponential smoothing

22. Explain forecasting using trend and seasonal time series

23. Explain Box-Jenkins method of forecasting

24. Explain in detail about different criteria of decision making under uncertainty

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