

M.A. (Economics) (New CBCS Pattern) Semester-II
EO-207 - Optional Paper - Econometrics-II

P. Pages : 1

Time : Three Hours



GUG/W/24/14333

Max. Marks : 80

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- Notes : 1. All questions are compulsory.
2. All questions carry equal marks.

1. Explain the concept of simultaneous equation bias. Why are simultaneous equation models are specified? **16**

OR

Explain the concept of identification with the help of Demand supply model.

2. Explain the concept of Forecasting with its application. Discuss ARIMA Modeling of forecasting. **16**

OR

What is the meaning of Unit Root? Explain Dickey-Fuller and Augmented Dickey-Fuller test of unit Root.

3. Answer the following questions **any two**. **16**

- a) What are the advantages of Panel data over cross section?
- b) Explain the fixed effects approaches for estimation of Panel data Regression model.
- c) Why Panel data techniques are used in economic research?
- d) Explain the concept of Random effect Model.

4. Answer the following questions **any two**. **16**

- a) State Bayes theorem of conditional probability.
- b) Explain the concept of Probability distributions.
- c) State the properties of multivariate probability distribution.
- d) Distinguish between Marginal and conditional probabilities distribution.

5. Answer the following questions (**all** compulsory). **16**

- a) Why simultaneous equations are bias and in consistent of OLS estimator.
- b) Outline the steps involved in the application of Box-Jenkins approach.
- c) Explain how panel data is superior than others.
- d) What is discriminate analysis.
