K24P 3014

Reg. No.: ....

Name : ....

III Semester M.A. Degree (C.B.C.S.S. – OBE-Regular) Examination, October 2024
(2023 Admission)
ECONOMICS/APPLIED ECONOMICS/DEVELOPMENT ECONOMICS
MAECO 03C13/MAACO 03C13/MADCO 03C13 : Advanced Econometrics

Time : 3 Hours Max. Marks : 60

PART – A

Short Answer Questions. Answer **any 5** questions.

1. What is the difference between stochastic and deterministic trends ?
2. What is meant by VECM ? Why do we use VECM ?
3. Explain cointegration.
4. Explain random walk model. What are the types of random walk ?
5. What are the desirable properties of an estimator ?
6. Prepare a note on Eigen vectors and Eigen values. **(5×3=15)**

PART – B

Short Essay Questions. Answer **any 3** questions.

7. Explain autoregressive conditional heteroskedasticity.
8. Describe ARMA and ARIMA models.
9. What is the difference between AIC and BIC criterion ?
10. Explain important approaches to economic forecasting based on time series data.
11. Explain the meaning and significance of Covariance Matrix. **(3×6=18)**

P.T.O.

PART – C

Essay Questions. Answer **any 3** questions.

12. Explain ARCH model. Discuss how ARCH model is different from GARCH model.

13. What do you mean by tests for stationarity in a time series ? Explain Dickey Fuller and Phillips-Perron tests.

14. What do you mean by panel data analysis ? Explain Fixed Effect Model and Random Effect Model.

15. Differentiate between factor analysis and principal component analysis.

16. Define time series regression. How do you interpret the coefficients in a time series regression ? Explain the CLRM assumptions underlying a time series regression model. **(3×9=27)**

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