2013

M.A/M.Sc.

3rd Semester Examination

ECONOMICS

PAPER—ECO-302E

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Special Paper : Econometrics

Group—A

Answer any *five* of questions : 2×5

1. (a) Define an AR(2) [Autoregressive of order two] process.

(b) Define strong exogecity of a variable in bivariate time series.

(c) Define a white noise series. Where is it used?

(d) Define spurians correlation.

(e) Define stationarity of series.

(f) Why does lag arise in an Econometric model?

(g) Distinguish between micro panel and macro panel.

(h) Distinguish between REM and FEM.

(i) State the theorem of orthogonally partitioned regression.

(j) State the properties of residual maker matrix (M).

Group—B

Answer any *two* questions : 5×2

2. What do you mean by unit root test ? Why do you carry one this test ? Explain.

3. Set up a dummy variable model to have a Kink in between two liners growth paths in a time series.

4. Briefly explain the advantages of panel data analysis.

5. Write a short-note on Wo-Hausman Test.

Group—C

Answer any *two* questions : 10×2

6. Define the concept of cointegration between two time series. How is the cointegration between two series determined ? What is the relevance of the existence of cointegration ?

7. Compare and contrast the Adaptive Expectation model and the L. M. Koyck model in the distributed lagged structure.

8. Estimate the parameters of FEM by LSDV.

9. Prove that OLS estimator of the slope parameter in Panel Data analysis is the weighted sum of within-group and between-group estimators.
