2008

ECONOMICS

[Special Paper : Econometrics- II]

PAPER - X

Full Marks : 40

Time: 2 hours

The figures in the right-hand margin indicate marks

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

Illustrate the answer wherever necessary

GROUP - A

1. Answer any five questions:

- 2×5
- (a) Define error correction model (ECM) in time series
- (b) What do you mean by structural invariance?
- (c) Distinguish between a random walk model and a random walk with a drift model.

(Turn Over)

- (d) Define partial autocorrelation function (PACF) in connection with time series.
- (e) Give an example of panel data model.
- (f) Why panel data is used?
- (g) What are the limitations of fixed effects model?
- (h) What is LSDV?
- (i) What is the basic assumption of L.M. Koyck scheme in the distributed lag model?
- (j) Explain the technological reason behind the existence of lag structure in econometric models.

GROUP - B

Answer any two questions

2. Distinguish between weak exogenity and strong exogenity in time series.

5

3. Define autoregressive distributed lag (ADL) relation and explain its connection with the long-run equilibrium relation.

4.	Distinguish	between AR	model and	MA model.	5
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5. Which model is better – FEM or CEM? Argue in favour of your answer.

GROUP - C

Answer any two questions

- 6. Explain in details the concept of co-integration in time series analysis.
- 7. Define unit root test. Explain the importance of unit root test in time series analysis. 4+6
- 8. Carefully distinguish the estimation procedure of FEM and REM.
- 9. How would you estimate the distributed lag model arrived at as a combination of adaptive expectation and partial adjustment structures. 10