

19P424

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Name:

Reg. No.....

FOURTH SEMESTER M.A DEGREE EXAMINATION, APRIL 2021

(CBCSS - PG)

CC19P ECO4 E01 - ADVANCED ECONOMETRICS

(Economics - Elective Course)

(2019 Admission - Regular)

Time: Three Hours

Maximum: 30 Weightage

Part A

Answer *all* questions. Each question carries 1/5 weightage.

1. Which of the following model is not used with binary dependent variables?
(a) SUR Model (b) Tobit model (c) Probit model (d) LPM Model
2. The name associated with Polynomial distributed lag model
(a) Granger (b) Almon (c) Plosser (d) Koyck
3. For detecting Auto Correlation in auto regressive models the test used is
(a) DF test (b) ADF test (c) Durbin h test (d) DW test
4. Which of the following is not a system method of estimation
(a) ILS method (b) Limited information method
(c) FIML method (d) OLS method
5. The procedure for estimating the structural coefficient from the estimated reduced form coefficient is known as
(a) OLS methods (b) ILS method (c) 2SLS methods (d) Dummy method
6. ADF test is for
(a) Cointegration (b) Error correction (c) Unit root (d) Volatility
7. Two SLS is an appropriate technique for
(a) Exactly identified models (b) Over identified models
(c) Under identified models (d) None of the above
8. Binary variables are also known as
(a) Qualitative variables (b) Predetermined variable
(c) Quantitative variables (d) None of the above
9. Order condition is based on
(a) Determinant rule (b) Counting rule (c) Polynomial rule (d) None of the above
10. A White noise process is a stochastic process with
(a) Zero mean (b) Constant variance
(c) Serially uncorrelated error term (d) All the above

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Turn Over

11. Box Jenkin methodology is associated with
 (a) AR process (b) ARIMA process (c) MA process (d) VARMA Process
12. Koyck scheme includes only
 (a) Exogeneous Lagged Variable (b) Endogenous Lagged variable
 (c) Pre determined Lagged variable (d) None of the above
13. The distribution underlying the probit model is
 (a) Normal distribution (b) Logistic distribution
 (c) Chi square distribution (d) F distribution
14. In which of the following models, both intercept and slope coefficient is fixed across individual subjects and over time
 (a) Fixed effect least square dummy variable model
 (b) Fixed effect within group model
 (c) Random effect model
 (d) Pooled OLS model
15. Under Box Jenkins methods, which of the following tools is used for identification of a model
 (a) Auto correlation function (b) The partial auto correlation function
 (c) Correlogram (d) All the above

(15 × 1/5 = 3 Weightage)

Part B (Very Short Answer Questions)Answer any *five* questions. Each question carries 1 weightage.

16. Explain the simultaneous equation model.
17. Explain the Linear probability models.
18. What is a Stochastic Process?
19. Explain the Two stage least square methods.
20. Define Error correction models.
21. Distinguish between ARMA and ARIMA models.
22. Explain Random Effect models.
23. Explain Autoregressive models.

(5 × 1 = 5 Weightage)

Part C (Short Answer Questions)Answer any *seven* questions. Each question carries 2 weightage.

24. Why lag occur in economic data.
25. Explain the estimation of panel data using fixed effect regression models.

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26. Compare the logit and Probit models.
27. What are the assumptions of VAR model?
28. Explain the Koyck approach to estimation of distributed lag models.
29. Explain the rank and order conditions of identification.
30. Explain the simultaneous equation bias.
31. Distinguish between trend stationary process and difference stationary process.
32. Explain and distinguish ARCH and GARCH models.
33. Explain the methods for testing Cointegration.

(7 × 2 = 14 Weightage)

Part D (Essay Questions)Answer any *two* questions. Each question carries 4 weightage.

34. Explain the various test for stationarity of time series data.
35. Explain the methods of estimation of simultaneous equation models.
36. Explain the of Box Jenkin Methodology of forecasting.
37. What do you mean by instrumental variable regression? Explain how to estimate it with single regressor and single instruments.

(2 × 4 = 8 Weightage)

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