

C 2442

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Name.....

Reg. No.....

FOURTH SEMESTER P.G. DEGREE EXAMINATION, APRIL 2021

(CCSS)

M.A. Economics

ECO 4E 04—APPLIED ECONOMETRICS

(2019 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.
Each question carries 1 mark.*

Multiple Choice Questions :

1. The relevant functional specification for a growth equation is :
 - a) Linear model.
 - b) Reciprocal model.
 - c) Log-Log model.
 - d) Semi log model.
2. Partial auto correlation function of ———— model is finite.
 - a) AR.
 - b) MA.
 - c) ARMA.
 - d) ARIMA.
3. An example for a censored regression model is :
 - a) LPM.
 - b) Logit.
 - c) Probit.
 - d) Tobit.
4. Wu-Hausman test is used in :
 - a) Simple Regression model.
 - b) Time series model.
 - c) Panel data model.
 - d) Qualitative response model.
5. An example of scientific knowledge is :
 - a) Laboratory and field experiments.
 - b) Social traditions and customs.
 - c) Authority of the Prophet or great men.
 - d) Religious scriptures.
6. Tests used for Stationarity is :
 - a) Subjective Judgement.
 - b) Correlogram.
 - c) Unit root test.
 - d) All of the above.

Turn over

7. Which of the following is not the characteristic of a time series data ?
- a) Trend factor.
 - b) Seasonality.
 - c) Multi variable.
 - d) Long term cycle.
8. An example for multiple equation model is :
- a) AR model.
 - b) VAR model.
 - c) ARMA model.
 - d) None of these.
9. Dickey-fuller test was developed in :
- a) 1960.
 - b) 1955.
 - c) 1979.
 - d) 1938.
10. Dummy variable models are used :
- a) To study about qualitative variables.
 - b) To study about seasonality.
 - c) To study about numerical categories.
 - d) All of the above.

(10 × 1 = 10 marks)

Part B (Very Short Answer Questions)

Answer any five questions.

Each question carries 2 marks.

Answer in one or two sentences each.

11. Write any two limitations in estimating a qualitative response model.
12. Define a random walk.
13. Distinguish between dichotomous and trichotomous variable.
14. Explain the nature of lag operator.
15. Explain spurious regression.
16. What is unit root ?
17. Distinguish between ARCH and GARCH.
18. What is random assignment experiment ?

(5 × 2 = 10 marks)

Part C (Short Answer Questions)

*Answer any **eight** questions.
Each question carries 5 marks.*

19. Explain the use of Correlogram.
20. Distinguish between ARMA and ARIMA modeling.
21. Write a short essay on Co-integration technique.
22. What are the limitations of Panel data estimation ?
23. Explain different tests used in checking stationarity of time series data.
24. Distinguish between Logit and Probit Model.
25. Explain the features of a VAR model.
26. Write a short essay on Error Correction Mechanism.
27. Explain various uses of qualitative response model.
28. Distinguish between trend stationary and difference stationary.
29. State the difference between AR and MA model.
30. Briefly discuss the features of simultaneous equation model.

(8 × 5 = 40 marks)

Part D (Essay Type Questions)

*Answer any **two** questions.
Each question carries 10 marks.*

31. Explain different type of Econometric models used in Economics.
32. Briefly discuss about the features of Panel Data Regression model.
33. Describe the important steps in estimating a time series data.
34. Write an essay on qualitative response models.

(2 × 10 = 20 marks)