- (ix) What is a bank's balance sheet? Briefly explain its components.
- What is standard money?
- Answer the following questions : (any two) 10×2=20
- economy. Discuss the role of money in modern
- (ii) market. Explain the main constituents of money
- (iii) selective methods of credit control Explain the selective credit control Distinguish between quantitative and measures.
- Explain in detail the determinants of money supply.
- Çī, (1) Answer the following questions : (any one) Explain the functions of a central bank. 14×1=14
- Discuss the need of a sound banking system in a developing country
- What factors influence demand for and help of saving and borrowing schedule. supply of savings? Determine market rate of interest in an economy with the

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2023

ECONOMICS

Paper: ECOHE 5126/ECOHE 5226

Full Marks: 80

Pass Marks: 32

Time: Three hours

The figures in the margin indicate full marks for the questions.

Paper ; ECOHE 5126

(Applied Econometrics)

(Option-I)

- Choose the correct option of the following: (any six)
- The purpose of literature review in empirical research is:
- To identify potential variables for the study

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Conta.

- (ii) research on the topic To provide an overview of existing
- To conduct statistical analysis
- (iv) To present the research finding
- (b) consequence of mis-specification? Which of the following the
- (i) Biased estimate
- Unbiased estimate
- Efficient estimate
- Consistent estimate
- (c) What does model specification refer to?
- Estimating the model parameter
- Selecting the appropriate model
- Evaluating the goodness of fit
- Testing the statistical significance
- (d) What is the key challenge in estimating a simultaneous equation model?
- (i) Endogeneity
- Heteroscedasticity
- (iii) Autocorrelation
- (iv) Multicollinearity
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- N

- (e) What is Panel Data in econometrics?
- Data collected from multiple sources
- Data collected at a single point of
- Data collected over multiple time periods from the same entities
- What does a distributed lag model Data collected from a specific region

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study?

- Lagged effects of an independent variable
- (ii) Contemporary of an independent variable
- (iii) Interaction independent variable effect between
- All of the above
- (g) In a fixed effect model what is held constant for each individual across time?
- Independent variable
- Dependent variable
- Error term
- Individual specific effects

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- (h) The estimation procedure adopted by the random effect model is -
- i) GLS
- (ii) WLS
- (iii) RLS
- (iv) OLS
- (i) Which of the following is the first stage in empirical research?
-) Formulating a research question
- (ii) Data collection
- (iii) Publication of research
- (iv) Data analysis
- (j) In regression analysis mis-specification refers to:
- (i) Choosing the wrong specific level
- ii) Choosing the wrong model specification
- (iii) Ignoring outliers in the data
- (iv) Using inappropriate software
- 2. Answer the following questions: (any five)

 2×5=10
- (a) Define model selection in econometrics
- b) What is mis-specified model?

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(d) Mention two uses of E-VIEWS software.

Define autoregressive model.

- (e) Mention two common functional forms used in regression.
- (f) Explain why stationarity is a crucial requirement for autoregressive model.
- (g) Provide a concise definition of functional form in regression.
- Answer **any six** of the following questions: 5×6=30
- (a) Explain the merits and demerits of Koyck method of estimating the lag model.
- (b) "Model selection is a crucial step in statistical modeling." Elucidate the statement.
- (c) Distinguish between single equation system and the simultaneous equation system.
- (d) Mention the steps in analysing the Panel Data.
- (e) Discuss the concept of simultaneous equation model in econometrics.

- 8 equation model. estimation approach in simultaneous Discuss the instrumental variable
- (9) Discuss the concept of distributed lags and its connection to the Koyck model.
- Mention any five types of misspecification in regression model.
- (i) Explain the importance of identifying mis-specification in regression model.
- STATA software in econometrics Write a brief note on the usefulness of
- Answer any two of the following: 10×2=20
- (a) Describe the structure of a Panel Data effects model in Panel Data analysis. set. Explain fixed effects and random

- economic research. the role of data collection in empirical empirical economic research. Discuss Explain the preliminary stages of 7+3=10
- 0 panel data. between cross-sectional, time series and Explain the concept of Panel Data and its advantage. Discuss the differences 5+5=10

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- (d) Explain Heteroscedasticity and serial correlation in Panel Data models.
- 5 Answer any one of the following:

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- (a) approach in simultaneous equation equation model in econometrics. Discuss Explain the concept of simultaneous the instrumental variable estimation
- (b) in empirical economic research. Explain the process research. Discuss ethical consideration specification in empirical economic of model

10+4=14

(0) of model selection. regression model. Explain the purpose Explore the concept of model selection and its relevance in building a reliable 8+6=14