2025

(6th Semester)

ECONOMICS ... (HONOURS) Denne lebomundiesergerich mestuin its

Regression Model? What the disturbance

Paper : Eco-603 (c) 130 (a) What do you mean by theoretical

(Econometric Methods) salient features of the binomial, poisson

> Full Marks: 70 Pass Marks: 45%

niclos Select Time: 3 hours at tadW

briefly the procedures of a testing of a The figures in the margin indicate full marks for the questions

1. (a) Discuss the objectives of econometrics. What are the basic characteristics of econometrical equations? 6+8=14

hypothetical TO two-variable linear

- (b) Explain the scope and limitations of econometrical study. 14
- 2. (a) What do you mean by the term 'Estimation' in econometric analysis? Explain 'small' and 'large' sample properties of an estimator. 4+10=14

444+7=14

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- (b) What do you mean by 'Linear Regression Model'? What is disturbance term in econometrics? Explain the reasons for insertion of disturbance term in regression model. 3+4+7=14
- 3. (a) What do you mean by theoretical probability distribution? Discuss the salient features of the binomial, poisson and normal distribution. 2+12=14

Pass Marks: 45%

- (b) What is statistical hypothesis? Explain briefly the procedures of a testing of a hypothesis. 4+10=14
- 4. (a) What is 'coefficient of determination'?

 Show that total sum of squares is equal to the explained sum of squares and residual sum of squares by assuming a hypothetical two-variable linear regression model.

 4+10=14

econometrical stroly.

(b) Why does heteroscedasticity arise in regression analysis? Explain briefly the consequences and methods of detecting heteroscedasticity. 6+8=14 5. (a) What is 'lag' in econometric analysis? Explain Koyck Approach to distributed lag model.

Or

(b) Define 'Dummy variable'. Explain its features and uses in econometric analysis. 4+10=14

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