REV-01
MEC/09/15

2025/05

SET A

MA ECONOMICS
FOURTH SEMESTER
ADVANCED ECONOMETRICS
MEC – 403A
[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1.30 hrs. **Full Marks: 35**

Objective

Time: 15 mins. **Marks: 10**

Choose the correct answer from the following: ***1×10=10***

1. A Regression model that includes the lagged values of the dependent variable among its explanatory variables is called.....
   a. Auto regressive model
   b. Distributed lag model
   c. Fixed effects model
   d. Linear Probability model

2. Koyek transformation model underlines
   a. Adaptive expectation model
   b. Stock adjustment model
   c. Rational Expectation hypothesis
   d. Both a and b

3. In Koyek model the closer the lambda is to 1, the rate of decline in β_k
   a. Is faster
   b. Is slower
   c. Depends on β_k
   d. Depends on k

4. In Linear Probability model, the
   a. Regressand is dichotomous
   b. Regressand is ordinal variable
   c. Regressand is none
   d. Regressand is a constant

5. The utility index I_i in a probit model is also known as.....
   a. Critical Index
   b. Latent variable
   c. Threshold level
   d. Serial autocorrelation

6. In Time series analysis data are collected.....
   a. At a point of time
   b. Both point and period of time
   c. Over a period of time
   d. None of the above

7. Hausman test statistics follows.....
   a. Normal distribution
   b. t distribution
   c. Chi-square distribution
   d. F distribution

8. Data set where each subject has the same number of observation is called.....
   a. Short panel
   b. Long panel
   c. Balanced panel
   d. Unbalanced panel

9. The best method to estimate Koyek model is.....
   a. OLS Technique
   b. Instrumental variable method
   c. GLS method
   d. MLE method

10. Models that use censored data:
   a. LPM
   b. Logit
   c. Probit
   d. Tobit

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Descriptive

Time : 1 Hr. 15 Mins. **Marks : 25**

[Answer question no.1 & any two (2) from the rest]

1. Estimate Koyek Model. 5

2. Define LPM. Illustrate Linear Probability Model. 2+8=10

3. Illustrate Logit Model with suitable example. 10

4. Elucidate the Unit Root Test of time series Analysis. 10

5. Describe Random Walk Model with drift and without drift. 10

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