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 both the current and past values of explanatory variables
   a. Autoregressive model
   b. Distributive 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 hypothsis
   d. Both a and b

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

4. In LPM the error term follows
   a. Normal Distribution
   b. Chi-square Distribution
   c. Bernoulli Distribution
   d. Logistic Distribution

5. In Logit model as the odds ratio decreases from 1 to 0 , the logit become
   a. Negative
   b. Equal to 0
   c. Fraction
   d. Positive

6. 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

7. Pooled OLS regression model is also known as
   a. Constant Coefficient model
   b. Constant variance model
   c. Constant Correlation model
   d. Biased and Inconsistent

8. 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

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

10. 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

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Descriptive

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

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

1. Explain Koyek Model. 5

2. Estimate Partial Adjustment Model. 10

3. Estimate Logit Model with suitable example. 10

4. Define LPM. Illustrate Linear Probability Model. 10

5. Explain Panel data. Describe Random Walk Model with drift and without drift. 10

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