M.Phil 1st Semester Examination, 2019

ECONOMICS

PAPER -ECO-112

Full Marks: 40

Time: 2 hours

Answer all questions

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

GROUP - A

1. Answer any two questions:

5 x 2

(a) Distinguish between a Trend Stationary Process (TSP) and a Difference Stationary Process (DSP).

- (b) Discuss briefly the different assumptions of a K variable Classical linear regression model.
- (c) What do you mean by structural break?
- (d) Discuss the method of testing the presence of ARCH.
- 2. Answer any *one* question: 10×1
 - (a) How is the existence of a sensible long run relation between two economic time series ensured?
 - (b) In a K variable Classical linear regression model, what happens to the maximum likelihood estimator of the slope vector, β, in the presence of linear restrictions?

GROUP - B

- 3. Answer any two questions:
 - (a) What do you mean principal components?
 - (b) What is scree plot?

 5×2

- (c) Briefly explain the steps of GMM for estimation of dynamic panel data regression model.
- (d) What is individual heterogeneity? How does panel data control individual heterogeneity? Explain.
- 4. Answer any one question:

 10×1

- (a) Explain the features of logit model. What are the measures of goodness of fit of this model? Discuss the relations between logit and probit estimates.
- (b) State and interpret different test criteria to select appropriate Panel Data Regression Model