14STP19

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEG REE EXAMINATION JUNE 2018
(Fourth Semester)

Branch **-STATISTICS**

ECONOMETRICS & PLAN MODELS

Time: Three Hours Maximum: 75 Marks

Answer ALL questions
ALL questions carry **EQUAL** marks (5 x 15 75)

1 a Define econometrics. Explain the scope of econometrics.

b Explain four important stages of econometric research.

OR

c Explain the cross-section and panel data,

d Explain the di fferent stages of econometric research.

2 a What is simple linear regression model?

b List out the properties of OLS estimators.

OR

c What is Elasticities? How to estimate clasticties from an estimated regression line?

d Explain with suitable example the Multiple linear Regression model.

3 a How to test the overall significance of a regression model?

b Discuss the economic interpretation of the 'standard-error test'.

OR

c What is auto-correlation? Explain any two sources of auto-correlation.

d What is multicollinearity? Explain any one method for detecting multicollinearity.

4 a Explain with suitable example the simultaneous - equation models.

b Explain two-stage least squares (2SLS) method.

OR

c Explain structural models,

d Write about reduced form models,

5 a Explain Harrod model,

b Explain Mahalanobis model.

OR

c What is Domar model? How it differs from Harrod model.