TB156315B

Reg. No :...............................

Name :..................................

B. A. DEGREE (C.B.C.S.S) EXAMINATION, MARCH 2018

(2015 Admission Regular)

SEMESTER VI - CORE (ECONOMICS)

EC6B15B - ECONOMETRIC METHODS

Time : 3 Hours **Maximum Marks : 80**

Part A

I. Answer all questions. Each question carries 1 mark **(6x1=6)**

1. Unbiasedness
2. Stochastic Term
3. Coefficient of correlation
4. Homoscedasticity
5. ANCOVA
6. Distributed Lag model

Part B

II. Answer any Seven questions. Each question carries 2 marks **(7x2=14)**

7. Efficient estimator
8. Exogenous and endogenous variables
9. Maximum Likelihood estimator
10. Simple Linear Regression
11. Define Multicollinearity
12. Orthogonality
13. Logit and Probit model
14. Binary Variable
15. Geometric lag scheme
16. What is a lagged model

Part C

III. Answer any Five questions. Each question carries 6 marks **(5x6=30)**

17. What are the properties of an econometric model ?
18. What are the desirable properties of estimators?
19. The dependent variable Y has a normal distribution with mean E(Yi)=b0+b1Xi.Give Proof
20. what is meant by an unbiased estimator? how is bias defined? Draw a figure showing the sampling distribution of an unbiased and a biased estimator
21. Explain the various tests to detect the existence of heteroscedastic disturbances
22. Discuss the use of dummy variable as proxies to numerical factors
23. what is a distributed lag model. explain the need of lagged variables in econometrics
24. Describe koyck's scheme in lagged variable models

Part D

IV. Answer any Two questions. Each question carries 15 marks **(2x15=30)**

25. Elucidate the scope of econometrics with suitable example. State how econometrics differs from mathematics and statistics
26. State the Stochastic assumptions of ordinary least squares. Explain the normal equations of OLS
27. Elaborate on the estimation of dummy variables. Do you think it is important to use dummy variables in economic analysis? Justify
28. Discuss the importance of lagged variables in econometrics . Explain the various distributed lagged models