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## OMDE/M-20: 19587 MABE-202: Fundamentals of Econometrics (upto 2015-16 syllabus)

Time: 3 hrs] [Max. Marks: 80

Note: Attempt five questions in all. Question No. 1 is compulsory. Select one question from each unit. All questions carry equal marks.

## Compulsory question 16 I. Write short notes on followings: (a) Null Hypothesis (b) Non stationary time series (c) Level of significance (d) Sufficient estimator (e) Serial correltion (f) Distributed lag model (g) Dummy variable (h) Hypothetical process of repeated sampling Unit I What do you understand by Regression? Discuss Ordinary Least Squares (OLS) II. method for the derivation of estimates for Simple Linear Regression Model. Discuss the various functional forms of regression models used in Econometrics.16 III. Unit II IV. What is Autocorrelation? Discuss Durbin-Watson test for detecting Autocorrelation. What are the possible remedies for Autocorrelation? 16 V. What is Multicollinearity? Discuss the consequences and solutions of multicollinearity. 16 Unit III VI. Discuss the following uses of dummy variable 16 (a) Comparing two regression model (b) Interaction effect (c) Seasonal analysis VII. Discuss the Granger test for causality. What are its limitations? 16 Unit IV VIII. Write short notes on following: 16 (a) Stationarity (b) Unit root (c) Co-integration What is time series forecasting? Discuss the Box-Jenkins Methodology of time series IX. forecasting. 16