Roll No						

Total No. of Pages : 02

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B.Sc. Business Economics (BBE) (2015 to 2017) (Sem.-3)

BASIC ECONOMETRICS

Subject Code : BBE-305

M.Code: 74196

Time : 3 Hrs.

Max. Marks: 60

- INSTRUCTIONS TO CANDIDATES: I. SECTION-A IS COMPULSORY consisting of TEN questions carrying TWO marks each.
 - SECTION-B consists of FOUR Sub-sections : Units-I, II, III & IV. 2.
 - Each Sub-section contains TWO questions each, carrying TEN marks each. 3.
 - Student has to attempt ANY ONE guestion from each Sub-section. 4.

SECTION-A

- 1. Write briefly :
 - a) Define Cross-Sectional Data, time series data and panel data.
 - b) Chi-square distribution.
 - c) Type-I and Type-II Error.
 - d) What is an econometric model?
 - e) Disturbance term.
 - f) What is the standard error of an estimator?
 - g) Least square criterion.
 - h) What is a dummy variable trap?
 - i) White noise.
 - i) Random walk with drift.

SECTION-B

UNIT-I

- 2. What is an estimator? What are the properties of an estimator?
- 3. What is the difference between one tail and two tail tests of significance? When would you prefer one tail or two tail? Why?

UNIT-II

- 4. What is regression? State the assumptions necessary for OLS estimation of the two variable population regression model.
- 5. Define the term homoscedasticity and heteroskedasticity. Why heteroskedasticity is more present in cross-sectional data? Give example where heteroskedastisity may be present.

UNIT-III

- 6. What is meant by autocorrelation? What are the sources of autocorrelation problem?
- 7. What is tolerance? How does it helps to measure the degree of multicollinearity in data?

UNIT-IV

- 8. Define ARIMA process? Discuss the steps invoiced in Box-Jenkins (BJ) methodology of ARIMA model selction.
- 9. What is the difference between autoregressive (AR) and moving average (MA) processes?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.