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Total No. of Questions : 09

B.Sc. Business Economics (BBE) (2015 to 2017)   (Sem.–3)
BASIC ECONOMETRICS
Subject Code : BBE-305
Paper ID : [74196]

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1. **Write briefly :**

    a. Econometric Model

    b. Independent variable

    c. Alternate Hypothesis

    d. Cross section data

    e. Cyclic fluctuations

    f. One Tailed Test

    g. Confidence Interval

    h. Type II error

    i. Inclusive Class interval

    j. Dispersion

SECTION-B

UNIT-I

2. How is Econometrics different from Statistics? Give your opinion.

3. What is a Normal Distribution? What are its major properties?

UNIT-II

4. What is the difference between Correlation and Regression? Give the detailed explanation of estimation of linear regression model through OLS approach.

5. What is Adjusted R^2? How is it different from R^2 and how do you interpret the goodness of regression fit in terms of R^2?

UNIT-III

6. "*In the case of perfect multicollinearity, the regression coefficients remain indeterminate and their standard errors are infinite.*" Verify the above statement in case of two explanatory variable regression model.

7. Define autocorrelation. What are the possible reasons that generally lead to autocorrelated u's?

UNIT-IV

8. Give an overview of the ARIMA methodology. Why is its applicability increasing over time?

9. Define forecasting. How do you ascertain the forecasting ability of a model?