2021
B.A./B.Sc. (Hons.) Fifth Semester
Economics
Paper – III: Introduction to Econometrics

Time allowed: 3 Hours   Max. Marks: 90

NOTE: *Attempt* <u>*five*</u> *questions in all, including Question No. I which is compulsory and selecting one question from each Unit.*

x-x-x

I. Write short notes on <u>any nine</u> of the following :-

   a) Any two names of Indian econometrics.

   b) Prime goal(s) of econometrics.

   c) What is power test?

   d) Define F-test.

   e) What are proxy variable?

   f) Give the formula of forecast the future value of MPC with the help of investment multiplier.

   g) What is simple regression?

   h) What is two tailed test?

   i) What are type I and type II error?

   j) Reason of Lag occurs.

   k) Meaning of composite hypothesis   (9x2)

UNIT – I

II. What is econometrics? Explain the nature of econometrics approach.   (18)

III. Describe the properties of good estimators in finite and infinite samples.   (18)

UNIT – II

IV. What do you mean by testing of Hypothesis? Explain Null and Alternative hypothesis with suitable examples.   (18)

V. Estimates the regression coefficients of the following model using Maximum Likelihood estimation:
$$Y = \alpha + \beta_x + U$$
(18)

UNIT – III

VI. Give the detailed interpretation of Partial Coefficient of Correlation.   (18)

P.T.O.

VII.   What is Hetroscedasticity? How one can detect it? Also give the solution if, Hetroscedasticity detect.   (18)

UNIT – IV

VIII.   What are Dummy variables? Give the use of Dummy variables in seasonal analysis.
(18)

IX.   Give the two rationalization of KOYCK approach.   (18)

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