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Exam. Code : 103206

Subject Code: 1201

B.A./B.Sc. 6th Semester

QUANTITATIVE TECHNIQUES—VI

Time Allowed—3 Hours] [Maximum Marks—100

Note: — Attempt five questions in all, including question

No. 1 which is compulsory and selecting one
question from each unit. Marks of each question
are given in brackets. Use of Non-programmable
non-scientific simple calculator is allowed.

- I. Write short notes on all ten sub-parts:
 - (a) Differentiate between Statistics and Econometrics.
 - (b) Define BLUE.
 - (c) What is D-W test?
 - (d) What do you mean by consistency of estimator?
 - (e) What do you mean by errors of measurement?
 - (f) What is the nature of Heteroscedasticity?
 - (g) What is Dummy variable?

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- (h) What is Distributed Lag model?
- (i) Define adjusted R^2 .
- (j) What is the problem of Auto-Correlation?

 $10 \times 2 = 20$

UNIT-I

- II. What is Econometrics? Explain the scope, types andMethodology of Econometrics.
- III. Discuss Simple Linear Regression Model with the help of an example. Will it be useful to fit a linear regression to the following data? Support your argument by computing the relevant measures:

X	12	10	14	18	16
Y.	9	10	8	9	7

10+10=20

UNIT-II

- IV. Explain assumptions and properties of General Linear Regression Model.20
- V. (a) What is Gauss-Markov Theorem?
 - (b) What is R²? What is its use?
 - (c) Give a note on test of significance. 7+7+6=20

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(Contd.)

UNIT—III

- VI. What is multicollinearity problem? What are the sources, consequences and tests of multicollinearity problem in regression analysis?
- VII. What is specification bias? Give types and consequences of specification errors.

UNIT—IV

- VIII.(a) Give a note on Auto-Regressive models.
 - (b) Explain the uses of Dummy Variable.

10+10=20

IX. Explain the sources, tests and remedial measures of auto-correlation problem in regression analysis. 20

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