KATWA COLLEGE

6th SEMESTER HONOURS INTERNAL ASSESSMENT

EXAMINATION - 2021

DEPARTMENT: ECONOMICS

SUBJECT: Basic Econometrics (H)   **COURSE CODE: CC13**

FULL MARKS – 10   **TIME: 1.30 hrs**

DATE: 05/07/2021

Answer any five questions 5*2=10

1. State the assumption of a Classical linear regression model (CLRM)
2. In a simple linear regression model of the form $Y_i = \alpha + \beta X_i + u_i$ for $i = 1,2,3,\ldots,n$ how can you estimate the regression parameter β
3. What is the meaning of the term heteroscedasticity? Explain the possible consequences of the problem of heteroscedasticty.
4. Define multiple coefficient of determination R^2 and adjusted R^2.
5. Explain Durbin-Watson test in brief for testing the problem of autocorrelation.
6. What is meant by exact multicollinearity? Explain the consequences of exact multicollinearity in terms of a linear regression model with two explanatory variables.
7. Explain briefly the Gold-field and Quandt test for testing the problem of heteroscedasticity.

Answer-scripts in PDF format to be in the following Email ID only-

Email ID: economicskcd@gmail.com