SHIVAJI COLLEGE, UNIVERSITY OF DELHI DEPARTMENT OF ECONOMICS

INTERNAL TEST (Academic Year 2023-24)

Name of the Course : B.A.(P) Semester: ...4..

Name of the Paper : Basic Econometrics Faculty Name : Nikita Gupta

Duration : 40 minutes Maximum Marks: 12

Date of Test : 12.04.2024

- Q1 State whether the following are true or false. Give reasons. (3)
 - i) $Y_i = e^{B_1} + B_2 X_i + u_i$ is a linear regression model.
 - ii) OLS is an estimating procedure that minimizes sum of errors.
- Q2 $\bar{Y} = 367.693$ $\bar{X} = 8$ n = 15 $\sum x_i^2 = 280$ $\sum y_i^2 = 150$ $\sum e_i^2 = 50$ $\sum x_i y_i = 4250.9$

where Y is the consumption of coffee in cups per day and X is the price of coffee per cup.

- i) Find b_1 and b_2 .
- ii) Interpret intercept term. Does it make economic sense?
- iii) Interpret slope coefficient.
- iv) Find R^2 and interpret it. (3+1.5+1+1.5)
- Q3 State the Guass Markov Theorem. (2)

Nikita

Faculty Signature: Nikita Gupta