THE OPEN UNIVERSITY OF SRI LANKA
DEPARTMENT OF SOCIAL STUDIES
BA DEGREE IN SOCIAL SCIENCES - LEVEL 05
FINAL EXAMINATION - 2023/2024 (Semester I)
DSU5337 - PRINCIPLES OF ECONOMETRICS
DURATION: THREE HOURS (03 HOURS) ONLY



Date: 13th January 2024

Time: 09.30 a.m. - 12.30 p.m.

Instructions:

- > Answer any five (05) questions ONLY.
- > Non-programmable calculators are allowed.
- 1) State whether the following statements are true, false, or uncertain. Justify your answers.
 - a) An estimator of a parameter is a non-random, but the parameter is random.
 - b) The assumptions made by the classical linear regression model (CLRM) are necessary to compute the OLS estimator.
 - c) The theoretical justification for OLS is not provided by the Gauss-Markov theorem.
 - d) If two variables are independent, their correlation coefficient will always be one.
 - e) The stochastic error term Ui and residual term ei mean the same thing.
 - f) The population regression function gives the value of the dependent variables corresponding to each value of the independent variable.
 - g) A linear regression model means a model linear in the parameter not in the variable.
 - h) In the linear regression model the explanatory variable is the cause and the dependent variable is the effect.
 - In practice, the two-variable regression model is useless because the behavior of a dependent variable can never be explained by a single explanatory variable.