EASTERN UNIVERSITY, SRI LANKA

FOURTH YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2011/2012

AEC 4105 – BASIC ECONOMETRICS (REPEAT)

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Answer ALL Questions

Time allowed: 02 hours

01)

a) What do you mean by "Regression Analysis"?

b) Define the following:

i) Simple regression

ii) Multiple regression

c) List the steps of "Methodology of Econometrics"?

d) Write down the estimated equation for the following results shown:

Model	Coefficients				
			t	Sig.	3
1	В	Std. Error			
1 (Constant)	3870.379	9976.521	0.388	0.699	
Amount of agricultural land	4831.818	695.230	6.950	0.000	

a Dependent Variable: Farm Income (Rs.)

02) Write Short Notes about the following:

a) R squared (R^2)

b) OLS (Ordinary Least Square) estimators

c) Hypothesis testing

d) Linearity assumption

03)

a) Explain the difference between cross sectional data and time series data, Give examples of each

b) Give examples for each of the following variables:

i) Continuous scale variables

ii) Nominal scale variables

iii) Ordinal scale variables

c) What do you mean by **Dummy Variables**? What are the rules for including dummy variables in regression?

04)

a) List the assumptions required for multiple regression analysis.

b) Briefly explain the situations of normality and multicollinearity.

c) Write down the determinants (at least one) for the given dependent variable:

Dependent variable		Independent variables (determinants)		
1. C	Crop yield			
2. D	Demand			
3. C	Consumption expenditure			