- (1)Give classical two Variables linear model. How would you estimate the parameters of the model?
- (2)Explain clearly trivariate linear regression model. Explain the concept of multiple and partial regression coefficients.
- (3)What is adjusted R^2 ? How would you present it in terms of R^2 ? How would you use \overline{R}^2 for comparison between several regressions models that are fitted?
- (4)What is Econometrics? Mention clearly the concepts of cross sectional data, time series data and panel data giving illustrations.
- (5)(1) Interpret the following result
 - (a) 99% confidence interval for β coefficient is (0.32, 0.49)
 - (b) $R^2 = 0.83$
 - (c) 95% confidence interval for α is (3.023, 4.19)
 - (2) Interpret the following model output

$Y = 1.68 + 0.38X_2 - 0.45X_3 + 0.71X_4$		
S.E. = (0.07)	(0.29)	(0.05)
(0.93)		
t = 13.9	5.23	1.79
2.35		
$n = 27 R^2$	= 0.6837	F
=10.84		