

DOON UNIVERSITY, DEHRADUN

Semester Mid Term Examination, even Semester, 2016

School of social science

M.A. (Economics) 2nd Sem

Course: SSE-532: Econometrics

Time Allowed: 2Hours

Maximum Marks: 30

Section A: Attempt Any Two

(2*5= 10 marks)

- 1. find out the relationship between
 - A. Econometrics and mathematical economics.
 - B. Econometrics and statistics.

5 marks

2. Var (b1)> var (b1*) proof the minimum variance property.

5 marks

3. Explain T test and Z test for the significance of estimators of SRF.

5 marks

Section B: Attempt Any Two

(2*5=10 marks)

1. What are the divisions of Econometrics?

5 marks

- 2. Prove the relationship between R^2 and slop of regression line is given by R^2 = $\widehat{\beta}1$ *{ $\sum xy/\sum y^2$ } 5 marks
- 3. Given the following estimated consumption function

$$\widehat{ct}$$
 = 1500+ .82yt

r^2=.95 and n=15

Test on the

 $\beta0$ and $\beta1$, they are significant or not

5 marks

Section C: Attempt Any Two

(2*5=10 marks)

1. Explain Bivariate and multivariate regression model with examples.

5 marks

- 2. Derive the formula for the β 0 and β 1 with the OLS method for the model Y= β 0 + β 1x + u . 5 marks
- 3. Explain the model with more than two independent variables and generalize the formula for their estimators.

 5 marks