Master of Rural Studies (MRS) Examination, 2016
Semester – III
Course - XIX
(Elementary Econometrics)

Time: Three Hours **Full Marks: 40**

Questions are of value as indicated in the margin.

Group – A

Answer *any Five* questions **5×2=10**

1. Define Random Experiment.
2. What is dummy variable trap?
3. What is Auto-correlation?
4. Define Random variable.
5. Give the classical definition of probability.
6. Indicate the 3 methods of estimation of parameters for stochastic relation.
7. Define combination.
8. Define probability function.

Group – B

Answer *any four* questions **4×5=20**

9. State and Prove Baye's theorem (with the help of concept of conditional probability). 2+3
10. Define t-distribution. What is the expression of its mean variance? When does a t-distribution approximate normal distribution. 2+1+2
11. Indicate the assumptions made for the error term (u) in a stochastic relation. 5
12. Briefly explain 'Unbiasedness' property of an estimator. 5
13. Find out the relation between t-ratio (when testing hypothesis $\beta = 0$) and r^2 (coefficient of determination). 5
14. Explain why a 'predictand' is generally unbiased. 5

PTO