

Master of Arts Examination, 2019
2nd Year , 2nd Semester
Economics
Advanced Econometrics II

Time 2 hours

Full marks 30

Answer any three questions

1. (a) Distinguish between Structural VAR and reduced form VAR.
(b) Discuss the method of Identification of a VAR model.

5+5 = 10

2. Explain for finding out co integration among the variables using VAR approach.

10

3. (a) State and explain Granger Representation Theorem.
(b) How do you test for number of lags of the variables using VAR model?

5+5 = 10

4. (a) Distinguish between semi parametric and non-parametric estimation method.
(b) In the context of Kernel Density estimation, discuss the method of choosing optimum bandwidth.
(c) How do you choose optimum Kernel?

3+ 5+2 = 10

5. (a) Discuss the concept of 'Survivor' function and 'Hazard' function in the context of duration model.
(b) Suppose 't' be a random variable representing duration of a particular event until the next event occurs. CDF of 't' is given below,

$$F(t) = 1 - e^{-t^2}$$

Derive hazard function at t= 2 time period. Does hazard rate increase in t=3 period? Explain.

4+3+3=10

6. Write short note
(a) Before- and-after comparison in Programme Evaluation
(b) Role of Poisson distribution in count data modeling.

5+5 = 10