

Ex/PG/ECO/A/DSE10.1/2023

MASTER OF ARTS EXAMINATION, 2023

(2nd Year, 2nd Semester)

ECONOMICS

[**ADVANCED ECONOMETRICS AII**]

(**PRE REQUISITE ADVANCED ECONOMETRICS I**)

Time : Two Hours

Full Marks : 30

Answer any *three* questions.

1. Explain and distinguish between structural VAR and the reduced form VAR highlighting the necessary assumptions. 10
2. Describe the methodology for finding out co-integration among the variables using VAR approach. 10
3. a) How do you carry out the test for restrictions on lag length in a VAR Model?
b) Explain Variance Decomposition Method using a VAR model. 5+5=10
4. a) What is a GARCH Model? How is it different from ARCH Model?
b) How do you estimate the parameters of an ARCH Model and carry out the test for ARCH effect? 4+6=10
5. a) Discuss semi-parametric and non-parametric estimation method.
b) Explain Kernel Density estimation. 4+7=10

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