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Reg. No....

FOURTH SEMESTER M.A. DEGREE EXAMINATION, JUNE 2016

(CUCSS)

Economics

Optional Paper 2—ADVANCED ECONOMETRICS

(2010 Admissions)

Time: Three Hours

Maximum: 36 Weightage

Part A

Answer all questions.

Each bunch of four questions carries a weightage of 1.

- A. Multiple Choice.
 - 1 Order condition is based on:
 - (a) Determinant rule.
- (b) Counting rule.
- (c) Polynomial rule.
- (d) None of the above.
- 2 A complete system of equations are known as:
 - (a) Reduced form model.
- (b) Structural model.
- (c) Structural equation. (d) None of the above.
- 3 Moving average model is:
 - (a) $y_t = \mu + \beta_0 u_t + \beta_1 u_{t-1}$.
 - (b) $(yt \delta) = \alpha_1 (y_{t-1} \delta) + u_t$.
 - (c) $y_t = \theta + \alpha_1 y_{t-1} + \beta_0 u_t + \beta_1 u_{t-1}$.
 - (d) $y_{t-1} = \alpha + \beta_0 x_{t-1} + \beta_0 \lambda x_{t-2}$.
- 4 ADF test is for:
 - (a) Unit root.

- (b) Co-integration.
- (c) Error correction.
- (d) None of the above.

- B. Multiple Choices.
 - 5 In $(K-M) \ge (G-1)$; M-denotes.
 - (a) Total number of equations.
 - (b) Total number of endogeneous variables.
 - (c) Total number of exogeneous variables.
 - (d) None of the above.

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	6		an appropriate technique	for:		
			ntly identified models	(b)	Under identified models	
			identified models.	(d)	None of the above.	
	7	Dummy var	iables are also known as	:		
		(a) Quan	titative variables.	(b)	Qualitative variables.	
		(c) Prede	etermined variables.	(d)	None of the above.	
	8	Box and Jen	kins methodology is asso	ciated	with:	
		(a) AR pr	cocess	(b)	MA process	
		(c) ARIM	IA process	(d)	None of the above	
C.	Fill	in the blanks	:			
	9		parameters are used	d for fo	orecasting.	
	10		ormation model assumes			
	11	The extension	n of ILS and IV method i	s	· ·	
	12	ILS is an imp	oortant technique for —		models.	
D.	Stat	e whether the	e following statements ar	e true	or false:	
	13	Probit model	is a quantitative response	e mod	el.	
	14	Almon's mode	el uses endogenous lagge	d vari	ables.	
	15	Rank condition	on for identification is bas	sed on	zero determinant.	
	16	Method of IV	is appropriate for under	identi	fied models.	
						$(4 \times 1 = 4 \text{ weightage})$
			Pa	art B		
			Answer any Each question car	ten q	questions. weightage of 2.	
	17	What is simul	taneous equation system	?		
	18	Write the rule	s of identification.			
	19	What is FIML	estimation?			
	20 1	Explain the m	ethod of Instrument Vari	iables		
	21 I	Explain the re	cursive system.			
	22 V	Vrite short no	tes on Nerlov model.			
-	23 V	What are the p	properties of binary varia	ble ?		
		explain probit				
4	25 V	What is ARIM	A model ?			
2	26 E	xplain MA pr	ocess of forecasting.			

- 27 Explain ACF test of stationarity.
- 28 What is co-integration?
- 29 Explain the econometric applications in Indian industry studies.
- 30 Explain the econometric applications in international economic studies.

 $(10 \times 2 = 20 \text{ weightage})$

Part C

Answer any **three** questions. Each question carries a weightage of 4.

31 Write the reduced form of the following structural equation.

$$C_{t} = a_{0} + a_{1} Y_{t} + u_{1}$$

$$I_{t} = b_{0} + b_{1} Y_{t} + b_{2} Y_{t-1} u_{2}$$

$$Y_{t} = C_{t} + I_{t} G_{t}.$$

Equations: (i) Consumption function, (ii) Investment function, (iii) Definitional equation.

- 32 Explain Koyck's transformation model.
- 33 Explain forecasting with multivariate regression model.
- 34 Explain ADF test of unit root.
- 35 Explain the econometric application in Monetary Economics.

 $(3 \times 4 = 12 \text{ weightage})$