arity in time series analysis and random walk models.		<b>22P427</b>	(Pages: 4)
s methodology of economic forecasting.			
	$(2 \times 4 = 8 \text{ Weightage})$	FOURTH SEME	STER M.A. DEGREE EXA
			(CBCSS - PO) (Regular/Supplementary/Imp
*****		CC19P E	CO4 E01 – ADVANCED F
			(Economics)
		Time: 3 Hours	(2019 Admission onwa
			Part A
		Answer <b>a</b>	<i>ll</i> questions. Each question ca
		1. In linear probability n	nodel, the
		(a) regressand is diche	otomous (b) re
		(c) regressor is dichot	omous (d) re
		2. Models that use censo	ored data is
		(a) LPM model	(b) Logit model (c) Pr
		an example of	nd on the current sales and pa
		(a) Autoregressive mo	(b) D
		(c) Lagged model	(d) Li
		4. In Koyck transformat	ion,
		(a) distributed lag mod	del is converted into an autor
		(b) an autoregressive	model is converted into distri
		(c) infinite distributed	lag model is converted to fir
		(d) finite distributed la	ag model is converted to infi
		5. What is the key assum lag model?	ption made when using the A
		(a) The dependent var	tiable is stationary (b) Th
		(c) The lag structure i	s fixed (d) Th
		6. In which of the follow invariant?	wing models, the intercept v
		(a) Pooled OLS mode	1
		(b) Fixed effect least s	square dummy variable mode
		(c) Fixed effect within	n group model
(4)		(d) Random effect mo	odel
			(1)

## 36. Explain the non-stationarity in time series analysis and random walk models.

37. Explain the Box–Jenkins

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n onwards)	
	Maximum: 30 Weightage
tion corrigs 1/5	waightaga
tion carries 1/3	weightage.
(b) regressand	is ordinal variable
(d) regressors i	s ordinal variable
(c) Probit mode	el (d) Tobit model
and past period	(t-1) sales of the firm This is
and past period	(t 1) suces of the fifth. This is
(b) Distributed	lag model
(d) Linear prob	ability model
n autoregressive	model
o distributed lag	model
d to finite distrib	outed lag model
to infinite distril	huted lag model
g the Almon app	broach to estimate a distributed
(b) The lag coe	efficients are linear
(d) The residua	ls are normally distributed
cept varies acro	oss subjects but remains time-
-	

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**Turn Over** 

7. In simultaneous equation mode	el, the number of equations to be estimated is	
(a) One more than the number of endogenous variables		15. The response of the dependent variable in the
(b) Equal to the number of end	ogenous variables	traced by
(c) Depend on the underlying e	economic theory	(a) Volatility clustering (
(d) Equal to the number of end	ogenous and exogenous variables	(c) Volatility (4
8. In SEMs, OLS can be applied i	if	
(a) it is a recursive model		Part B (Very Short Ans
(b) order condition is satisfied		Answer any <i>five</i> questions. Each qu
(c) rank condition is satisfied		16. Write a note on LPM.
(d) both order and rank condition	ons are satisfied	17. What is impact multiplier?
9. The ILS estimators are		18. Define an instrumental variable.
(a) unbiased in small samples	(b) biased in large samples	19. Define single-equation models.
(c) asymptotically efficient	(d) BLUE in small and large samples	20. What are causal models?
10. In random walk without drift		21. What is meant by instrument relevance?
(a) The effect of shock persists	throughout the time period	22. Define spurious regression.
(b) The effect of shock in the past dies out over time		23. Define VAR models.
(c) The effect of shock drifts av	way quickly	
(d) There is no effect of past sh	nock	Answer any seven questions. Each qu
11. A time series with all the moments of its probability distribution being invariant over time is		24. Explain Probit model.
known as		25. Explain autoregressive and distributed lag mo
(a) Trend stationary	(b) Difference stationary	26. Explain the Koyck approach to distributed lag
(c) Weakly stationary	(d) Strictly stationary	27. Explain the procedure for detecting autocorrel
12. A time series that has a unit root can be made stationary by		28. Explain the rules of identication.
(a) detrending the time series	(b) first differencing the time series	29. Explain the method of 2SLS.
(c) Either (a) or (b)	(d) Neither (a) nor (b)	30. Explain the instrumental variable estimator wi
13. The model in which Y depends on current and previous time period error term is		31. Compare and contrast the commonly used test
(a) Single equation model	(b) AR (1) model	32. What is error correction mechanism (ECM)?
(c) MA (1) model	(d) ARMA (1, 1) model	33. Explain volatility clustering and its measurem
14. ARIMA (0, 0, q) means the sto	ochastic process is	
(a) AR (q) stationary process		Part D (Essay qu
(b) MA (q) stationary process		Answer any <i>two</i> questions. Each qu
(c) Time series that needs to be	e differenced p times to make it stationary	34. Compare and contrast the fixed effect and rand
(d) Nonstationary series with p	lags	35. Explain the different single equation methods
		(3)

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e VAR system to shocks in the error terms is

(b) Impulse response function

(d) Partial autocorrelation function

 $(15 \times 1/5 = 3 \text{ Weightage})$ 

swer Questions) uestion carries 1 weightage.

 $(5 \times 1 = 5 \text{ Weightage})$ 

er Questions) question carries 2 weightage.

odels.

g models.

elation problem in autoregressive models.

with a single regressor and a single instrument. sts of stationarity.

Bring out its relation with cointegration? nent.

 $(7 \times 2 = 14 \text{ Weightage})$ 

uestions)

uestion carries 4 weightage.

ndom effect models in panel data analysis.

s of estimation of simultaneous equations.

**Turn Over**