Reg. No. :	,		K21P 0685
Name :		,	
II Semester N	I.A. Degree (C Imp.) (2014 S / APPLIED I	1 Admin t	ards)
Time: 3 Hours			
			Max. Marks : 60
		PART - A	
Answer all quest			(0.1 (.4)
	, =00	values about their sa	d) Mee
a) t- test 3. r ² or the coeffic a) Econometric c) Priori test	b) Z - test cient of determin c test	c) F - test nation is a/an b) Second order d) First order tes	rtest
4. Autocorrelationa) Granger's5. OLS regressiona) Parameters	o) rain	test.	d) Durbin Watson
a) Parameters	b) Variables	non-linear in c) Both a) and h)	d) None of the above
Over identified ea) OLS	equation is estimed) ILS	nated with	method. d) 2SLS
c) Non stochasti	ic	repeated samples. b) Stochastic d) Varving	
8. The mean valuea) Linearityc) Consistency	of the estimate	is the same as its tru b) Unbiasedness d) Efficiency	e value, the property is



PART - B

Answer any eight questions. Each question carries 2 marks:

 $(8 \times 2 = 16)$

- 9. What is a recursive model?
- 10. Define linearity in regression.
- 11. What is meant by generalized least squares?
- 12. Define standard error.
- 13. Explain tests of significance.
- 14. Define a random variable.
- 15. Explain statistical significance.
- 16. What is a disturbance term?
- 17. Define econometrics.
- 18. What do you know about normality assumption?
- 19. Define heteroscedasticity.

PART - C

Answer any four questions. Each carries 5 marks :

 $(4 \times 5 = 20)$

- 20. Explain the meaning and causes of autocorrelation.
- 21. What are the causes of multicollinearity?
- 22. Prepare a note on 2SLS.
- 23. What is Simultaneous equation bias? How does it occur?
- 24. Explain ANOVA in regression.
- 25. What are the desirable properties of an estimator?



PART - D

Answer any two questions. Each question carries 10 marks:

 $(2\times10=20)$

- 26. Discuss the nature and scope of econometrics. Distinguish between Econometrics and Mathematical Economics.
- 27. State and explain the assumptions of classical linear regression model.
- 28. Given the following sample data of a two variable regression model:

$$\sum X_i = 502$$
, $\sum Y_i = 222$, $\sum X_i^2 = 18126$, $\sum Y_i^2 = 4924$, $\sum X_i Y_i = 9224$,

Sample size = 20.

Estimate regression equations Y on X and X on Y.

29. Discuss in detail the problem of heteroscedasticity, its consequences in the presence of OLS estimation, the methods of detection and remedies to solve it.