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SETH SEMESTER B.A. DEGREE EXAMINATION, MARCH/APRIL 2015

(U.G.—CCSS)

Core Course-Economics

EC 6B 11-MATHEMATICAL ECONOMICS AND ECONOMETRICS

Three Hours

Maximum: 30 Weightage

Answers may be written either in English or in Malayalam. Use a simple Calculator is permitted.

Part A

Answer all the questions from 1-12.

MRSxy	is	given	by	the	slope	of	:
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(a) PPC.

(b) Indifference curve.

(c) Cost curve.

(d) Isoquant.

The value of correlation coefficient lies in between:

(a) 0 to 1.

(b) -1 to 0.

(c) -1 < r < +1.

(d) 0.

In monopoly, MR is:

(a) Below AR.

(b) = AR.

(c) Above AR.

(d) Constant.

Marshal's utility function is:

(a) Ordinal.

(b) Cardinal.

(c) Both.

(d) None.

In perfect completion, shut down point is the point where:

(a) P = AFC.

(b) P = ATC.

(c) P = AC.

(d) P = AVC.

Linear homogenous production function generates:

- (a) Increasing returns.
- (b) Decreasing returns.
- (c) Constant returns.
- (d) Zero returns.

7.	Graphic	cal solution of LPP	is adequate wher	the	number of variables is:
	(a)	Three.		(b)	Two or three.
	(c)	Two.		(d)	None.
8.	Sample	mean is called:	(863)		
	(a)	Parameter.		(b)	Statistics.
	(c)	Estimator.		(d)	All the above.
9.	The da	ta at a point of time	e is called:		
	(a)	Time series.		(b)	Panel.
	(c)	Pooled.		(d)	Cross-section.
10.	Mean	of the error term in	the econometric	node	el is:
	(a)	x.		(b)	-1. ho egola odli vd navig si vze
	(c)	+ 1.		(d)	0.
11.	Linear	dependence between	en the successive	valu	es of the error term in called:
	(a)	Multicollinearity.		(b)	Autocorrelation.
	(c)	Random error.		(d)	Heteroscedasticity.
12.	't' test	is used when the sa	ample is:		
	(a)	Large.		(b)	Medium.
	(c)	Small.		(d)	Both small and large.
		are the distance	Lieuno)		$(12 \times \frac{1}{4} = 3)$
		Pa			Type Questions)
10		1 1 1	Answer	an q	uestions.
	13. Explain demand and supply functions.) Both		
15	Dofine	Engal function			
16	What	is 't' test ?			
17.	Distin	guish between MR	S and MRTS.		1 P = 8C
	Define	e Econometrics.	100		
					Increasing retains

- 20. Distinguish between correlation and regression.
- 21. Define linear homogenous production function.

 $(9 \times 1 = 9 \text{ weightage})$

Part C (Short Essay or Paragraph Questions)

Answer any five out of seven.

- 22. Explain the lagrange multiplier method.
- 23. State the relationship between average revenue and marginal revenue.
- 24. How do you solve a linear programming problem?
- 25. How do you measure income elasticity of demand? Classify goods by this measure.
- 26. Given the demand function q = 71 0.5p and the cost function c = 2000 + 10q, find the monopoly profit and price.
- 27. How do you test the significance of regression coefficients.
- 28. Explain the OLS method of estimating parameters of linear regression model.

 $(5 \times 2 = 10 \text{ weightage})$

Part D (Essay Questions)

Answer any two out of three.

- 29. Maximise the utility function U = 4xy + 3y subject to the constraint 2x + 6y = 60.
- 30. Discuss the properties of Cobb-Douglas production function.
- 31. Explain the equilibrium under discriminating monopoly.

 $(2 \times 4 = 8 \text{ weightage})$