1202 Soft EDR <

Eastern University, Sri Lanka Faculty of Commerce and Management Postgraduate Studies Unit First Year First Semester Examination in MBA August 2019 (Proper / Repeat) MBA1013: Economics for Managerial Decision Making

Answer all questions

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Time: Three Hours

1.	i.	What is meant by 'Managerial Economics'? How the aspects in Managerial Economics can assist managers for decision making.	(06 Marks)		
2.	ii.	List out the important principles for managers.	(04 Marks)		
	iii.	Graphically explain the characteristics of demand curve.	(04 Marks)		
	iv.	7. Define demand function, the law of demand and demand schedule (To			
	i.	What is meant by Elasticity? Briefly explain the determinants of types of elasticity of demand. (05 Mar			
	ii.	State whether the following statements are True or False. Justify your Answer.			
		a) Demand for such products is relatively elastic or simply elastic if the consumers are highly responsive to price changes.			
		b) The price elasticity of demand = - 4 when the price rises from 4 to 6 and quantity demanded falls from 100 to 80.			
		c) High level of brand loyalty makes demand high price elastic.			
		d) Necessities generally have less price elastic compare to luxury.			
		e) The Cross Price elasticity would be positive if two commodities are complementary.	(08 Marks		

11. The marketing department of an Apparel company that estimated the determinants of market demand for its T-Shirt production. The department estimations are given as follows:

NB: All variables were taken for natural logarithm

Variables	Coefficient to 1		
Constant	coefficient	t-value	p-value
	1.499	4.596	0.000
Price	1 265		
Price of rival's brand	-1.203	2.568	0.000
Advertisement	0.568	1.365	0.098
Ruvertisement expenditure	1.985	2 005	0.050
Income of age group of 20-35	1 569	1.000	0.050
Income of age group of 35-55	1,508	1.998	0.065
R-square: 85 369	0.986	1.112	0.365
Critical t-values are 2.356, 1.852 and respectively	1.365 for 1%, 5% a	and 10% sign	nificant level

- a) Interpret each coefficient and R-square.
- b) Test significance level of each variable.
- c) What would the advice be of the marketing department to increase the demand for the T-Shirt? (Your advice may be subject to the important variables that are likely determining the demand for T-Shirt).

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- i. What is explained by a short-run production function? Briefly explain that under what circumstances a production unit can persist under Short-run production process.
- ii.

Suppose your are given a short run production function as follows $TP = 10L - 0.5L^2$

where TP is total product and L is labour hours

Derive average and marginal production functions

- Calculate elasticity of production when the labour hours are 3, 5 and 14
- iii. Miller company uses two inputs, X and Y, in its production function. The production function is;

 $Q = 40 X^{0.5} Y^{0.5}$

where inputs and output are in units per week.

The market price of input X is \$100 per unit and that of input Y is \$20 per unit. Miller has a budget constraint of \$16,000 per week.

- a) Find the level of capital and labour at the optimum level.
- b) Measure the firm's output level at the optimum level.
- c) Suppose that the price of per output is \$3, find the profit.
- d) Find the value for lambda (λ) and interpret it

(Total 20 Mark

(10 Mark

- What is meant by Learning Curve Effect? Briefly explain how far learning curve i. creates benefits for operations managers.
- (05 Marks What is meant by 'Economies of Scale'? Explain the causes of economies of scale ii. (08 Marks
- A Robot producing company measured learning curve for a group of workers in the iii. assembling units as follows: $Y = 100 x^{-0.322}$



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- a) Calculate the hours required when the group of workers assemble 50th, 100th and 155th unit of Robots. *
- b) How would you interpret if the learning rate is 80% of this unit

(07 Marks)

(Total 20 Marks)

Is a perfectly competitive market structure in the real world? How? · i. (03 Marks) What is Lerner Index? Explain how the Lerner Index is related with Monopoly power ii. (05 Marks) What is meant by product differentiation? Why it is essential to the companies that iii. are in Monopolistic competitive market?

(05 Marks)

iv. Consider the following table that comprises Four Firm Concentration Ratio and Herfindahl-Hirschman Index (HHI), and address the market status of each sector given.

4 Firm Concentration Ratio and HHI (top 50)								
Sector	Total number of firms	4 Firm Concentration Ratio	HHI (top 50)					
Food Manufacturing								
	311	16.8	118.7					
Malt Manufacturing								
	311213	91.4	2,192.4					
Motorcycle								
Manufacturing	373	67.5	2037					
Camera								
Manufacturing	165	45.0	1500					

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