## FACULTY OF MANAGEMENT STUDIES

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## UNIVERSITY OF DELHI

## **Semester Examination 2013**

,		MONTOLL THAIL, S	emester 1, November 2013	······································	
	Paper Name MANAGI	ERIAL ECONOMICS Paper	No 6103	Ontion	**********
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	provided below.	tes regarding the number	of questions to be answered	etc. should be indicated in s	pace
A	inswer any five quest	ions. All questions carry e	qual marks. Calculators are	allowed.	
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Serial				1 616 A.	
No. of	Answer any five questions. All questions carry equal marks.			Marks	
Question				way and	
1.	Consider the following table for elasticity and cross-price elasticity:				
	Type of apples	Chimle Ameles	<i>17</i> :	W 1 12 4 1 1	6+4
	Type of apples	Shimla Apples	Kinnaur Apples	Kashmiri Apples	
	Shimla	- 3.07	+ 1.56	+ 0.01	
	Kinnaur	+ 1.16	- 3.01	+ 0.14	
	Kashmiri	+ 0.18	+ 0.09	- 2.79	
	(a) For each variety of apples determine whether seller's total revenue will increase, decrease or remain unchanged with a 10% decrease in price. Quantify the % changes in total revenue				
	for each of the three (b) What do you le from the table about information obtain	earn about consumers' pove? Suppose you are a S	erception of how similar th himla-apple producer, hov	nese apples varieties are v would you use the	
			narket is given by Q <sub>d</sub> 100	P and Q <sub>s</sub> ~ P	1+5+4
	respectively.	e competitive market ed			

3. In the market for granulated packaged sugar, all firms and potential entrants are the identical. Each has a long-run total cost curve,  $TC(q) = 100 + q^2$  for positive q and TC(q) = 0 for q=0. The market demand is  $Q_d = 10,000 - 100P$ . Assume a competitive market structure.

(a) Find the industry output in long-run equilibrium.

(b) Suppose now there is a fall in the demand for sugar such that the new demand is:  $Q_{dnew} = 5,000 - 50P$ . Draw the graph of a typical firm and a separate graph of the sugar market and explain the impact of this change in the short-run and the long-run. Compare the various long-run variables from part (a) to the new long-run variables.

Imagine that Samsung and LG are the only two firms selling refrigerators in certain market. The demand curve for refrigerators is given by: P = 100 - Q, where P is the market price and Q is the total quantity. Quantity produced by Samsung is denoted by Q1 and quantity produced by LG is given by Q2. Each firm is identical in terms of the product they sell and the technology. Each has a marginal cost of 10.

(a) Write down LG's reaction function and draw it. Also write down Samsung's reaction function and draw it in the same graph.

(b) Compute the Cournot Equilibrium quantities and price.

- (c) Would you expect a different outcome (in terms of P and Q) if Samsung and LG decide to form a cartel instead of being Cournot competitors? Explain.
- (a) Market for bananas is a competitive one. The equilibrium price in the market for bananas is Re 0.50 per piece. At this price, the quantity sold is 1 million pieces. Assume that both market demand and market supply curves are linear. Suppose the price elasticity of demand is -4 and the price elasticity of supply is 0.01 at market equilibrium. Find the equations for demand and supply. Draw both the demand and the supply curves.
- (b) Define elasticity of substitution in production. Suppose a firm's production function is such that the value of its elasticity of substitution is close to 0 at its current level of output. The firm uses labor and capital as inputs. If now the price of labor doubles, how is the firm going to adjust its optimal input demand compared to the initial situation. Discuss qualitatively, assuming a profit-maximizing firm.

Write short-notes on any two:

4.

5.

6.

- (a) Third Degree Price Discrimination
- (b) Shutdown price determination in competitive markets
- (c) Sales maximization versus profit maximization

4+2+4

2+8

5+5

5+5