Below you shall find the McQs and Theoretical questions on **Perfect competition**.

Multiple Choice Questions

- 1. Perfect competition is an industry with -
- A) a few firms producing identical goods.
- B) many firms producing goods that differ somewhat.
- C) a few firms producing goods that differ somewhat in quality.
- D) many firms producing identical goods.
- 2. In a perfectly competitive industry, there are -
- A) many buyers and many sellers.
- B) many sellers, but there might be only one or two buyers.
- C) many buyers, but there might be only one or two sellers.
- D) one firm that sets the price for the others to follow.
- 3. In perfect competition, restrictions on entry into an industry -
- A) do not exist.
- B) apply to labor but not to capital.
- C) apply to both capital and labor.
- D) apply to capital but not to labor.
- 4. In perfect competition, -
- A) there are significant restrictions on entry.
- B) Each firm can influence the price of the goods.
- C) there are few buyers.
- D) all firms in the market sell their product at the same price.
- 5. Economists assume that a perfectly competitive firm's objective is to maximize its -
- A) revenue.
- B) economic profit.
- C) output price.
- D) quantity sold

Theoretical Questions

1. Suppose a firm operates in a perfectly competitive market. Market price of the product that the firm sells is \$10. The firm's cost functions are-

$$TC = 2+10Q-4Q^2 + Q^3$$

 $MC = 10-8Q+3Q^2$

- (a) What level of output should the firm produce to maximize profits?
- (b) Determine the level of profit at profit maximizing equilibrium.
- (c) What is the minimum price required by the firm to stay in the market?
- 2. A perfectly competitive firm sells its products for \$300. Complete the table below. Find the following: profit-maximizing price, profit-maximizing quantity, and greatest possible profit. Be sure to use the profit-maximization condition to find the profit-maximizing quantity.

Q	Р	TR	тс	Profit	MR	МС
0			100			
1			200			
2			400			
3			700			
4			1100			
5			1600			
6			2200			
7			2900			

- 3. Draw diagram of the following situations:
 - (a) All the potential choice a firm has when it is experiencing an Economic loss.
 - (b) When no firms are entering and leaving the market in the long-run.
- 4. In a small, but perfectly competitive market for pineapples, there are 5 identical growers. Each grower has the following total cost function:
 - , where q is thousands of pounds of pineapples produced.

The market demand for pineapple is and the market supply is , where P denotes the market price of pineapple in USD, which all pineapple producers take as given.

a. Find the equilibrium price and quantity in the market of pineapples.

- b. Each grower's marginal cost based upon the TC equation is given by MC = 4+4q. Given this information, and using the answer in part (a), what is an individual grower's profit-maximizing level of production in the short-run?
- c. Calculate the grower's total revenue, total cost, and profit at the profit-maximizing level of production.
- d. Find the equation for a representative grower's average variable cost (AVC) curve. Why would a grower choose to operate at a loss in the short run?

Solutions

McQs

- 1. D
- 2. A
- 3. A
- 4. D
- 5. B