

- iii. If the unit price of labour increases to Rs.36/=, same as the unit price of capital, find the efficient combination of inputs needed to produce 3600 units.
Using illustrations, explain how the usage of labour and capital combination change compared to the combination in part (ii).
- iv. What is the nature of “returns to scale”, the given production function reflect? Explain using illustrations. (12 Marks)
- c) How would a production function of a firm change under neutral, labour and capital saving technological progress? Explain using illustrations. (06 Marks)

Question No. 03

a) “The course of action adopted by managers of an unprofitable firm should be based on a consideration of the alternatives, one option is to continue producing at the least unprofitable rate of output, another is to shut down the operations, however, the best is to aim at minimizing losses ”

- i. Could a loss making Perfectly Competitive firm still continue to produce? Explain using illustrations.
- ii. Do you agree with the above statement? Explain.
- iii. The total viable cost of Perfectly Competitive firm is given as;

$$TVC = 172Q - 20Q^2 + Q^3$$

Find the price below which the firm should shut down?

(15 Marks)

b) Suppose the market demand and supply equations for a Perfectly Competitive firm given as,

$$Q_d = 20000 - 25p \quad Q_s = -12000 + 25p$$

The average cost function of an individual firm that operates in this industry is given as;

$$AC = \frac{200}{Q} + 40 + Q$$

- i. Find the profit maximizing price and output.
- ii. Calculate the economic profit or loss of this firm.
- iii. Depending on the answer to part ii (economic profit/loss), how would the market behave in the long run? Explain using illustrations. (10 Marks)

Question no.04

- a) “ Firms operate in Oligopoly markets could often benefit from collusion”
- i. Using illustrations explain whether you “agree” with the above statement.
 - ii. Why would the prices are generally stable in non- collusive Oligopolistic industries? Explain using “Kinked- demand” model.
 - iii. Could the Oligopoly prices remain rigid as the Kinked – demand theory implies, when the macro economy is unstable? Explain. (15 Marks)

b) Consider the details of an item produced by an Oligopoly firm given below.

Above the kink D_1 ;	$Q_1=124 - P_1$
Below the kink D_2 ;	$Q_2=68 - 0.5P_2$
Q-output	P-price

The total cost of the firm is given as;

$$TC= 80 + 68Q + Q^2$$

- Find the firm's output and the price at the kink.
- Calculate the firm's profit.
- Are the output, price and profit optimal? Explain.

Using illustrations explain the findings.

(10 Marks)

Question no.05

a) " Firms engage in price discrimination because it enhances their profits. However the opportunity to engage in price discrimination is not readily available to all sellers."

- What are the necessary conditions for price discrimination? Explain
- Highlighting the difference among 1st, 2nd.and 3rd degree price discrimination explain whether you "agree" with the above statement. Use illustrations to explain your answer.
- Is it easier and simple for managers to practice 1st degree price discrimination? Explain.

(15 Marks)

b) Suppose a firm has two different groups of clients and the demand equation representing each group is given as;

$Q_A= 720 - 20P$	$Q_B= 480 - 5P$
Q-demand	P-price

Firms cost function is given as'

$$TCCQ) = 8Q_T \quad (Q_T = Q_A + Q_B)$$

- If the firm is to practice third degree price discrimination, find the profit maximizing price and output of each market.
- If the firm is unable to practice price discrimination find the profit maximizing price and output.
- Prove that firm is able to make a higher profit when practicing price discrimination than charging a single price.

(10 Marks)

Question no.06

- a) "In Cost – Plus pricing the mark up percentage tends to vary inversely with demand elasticity."
- i. What is meant by "Cost-Plus" pricing? Explain.
 - ii Explain whether you "agree" with the statement given above. .
 - iii. Price Elasticity of Demand for good 'X' is given as '3' and it costs the firm Rs.200/= to produce good X. In pricing the product using Cost –Plus method, out of the two prices, Rs.300/= and 400/=, which price is optimal? Explain with necessary calculations. (10 Marks)
- b) What is meant by "Transfer Pricing"? Explain. (04 Marks)
- c) Assume division "C" manufactures the components and the division "S" assembles them into the final product and sells it. Using illustrations explain how the transfer price is determined; if,
- i. there is no external markets for intermediate product.
 - ii. there is a competitive market for intermediate product. (11 Marks)

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