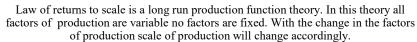
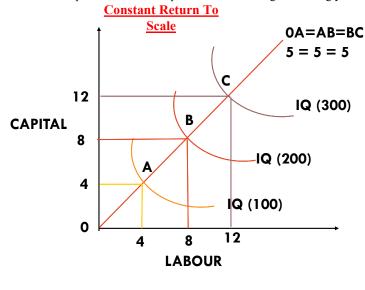
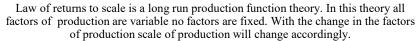
LAW OF RETURNS TO SCALE

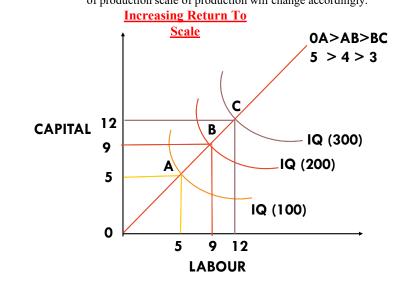
Q. DISCUSS THE LAW OF RETURNS TO SCALE
Q. WHAT ARE THE IMPORTANT
PROPERTIES OF ISOQUANT? / ISOQUANTS

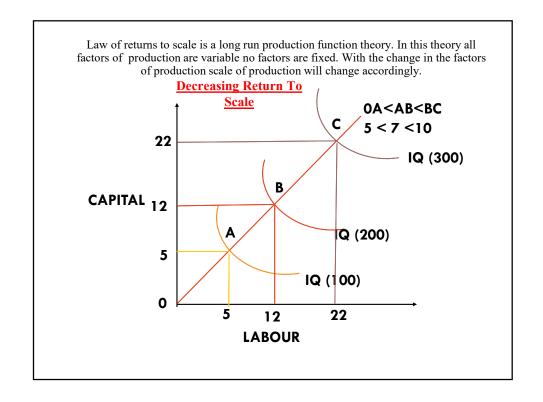


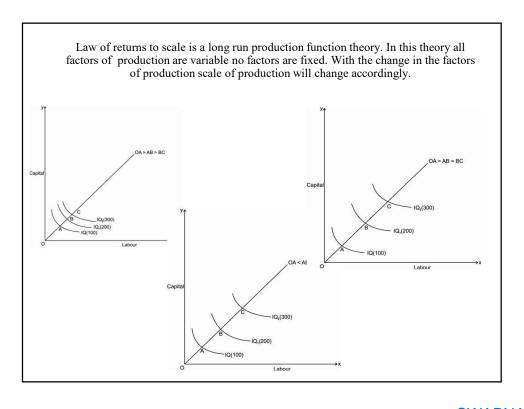












ISOQUANTS

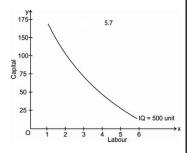
Q. WHAT ARE THE IMPORTANT PROPERTIES OF ISOQUANT? / ISOQUANTS

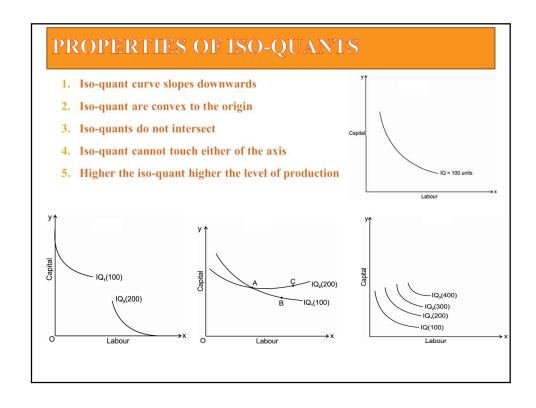
WHAT ARE THE IMPORTANT PROPERTIES OF ISOQUANT? / ISOQUANTS

An iso-quant is also known as iso-production curve, iso-indifference, equal production curve by various economists.

Iso-quant is defined as "a locus of all the combination of two factors of production that yields that yield the same level of output."

Factor	Labour	Capital	Output
combination		•	•
A	1	150	500
В	2	100	500
С	3	75	500
D	4	50	500
E	5	25	500



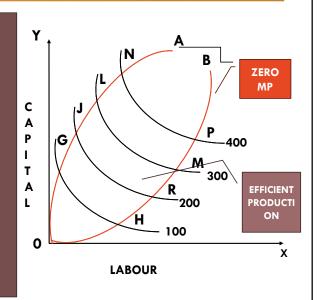


Q. RIDGE LINES/ WRITE SHORT NOTE ON RIDGE LINE.

THE RIDGE LINES ARE THE LOCUS OF POINTS OF AN ISO-QUANTS WHERE THE MARGINAL PRODUCT OF FACTORS IS ZERO

RIDGE LINES

- An isoquant is ovalshaped lies between the ridge lines.
- ➤ The upper ridge line implies zero MP of capital
- The lower ridge line implies zero MP of labour.
- Production techniques are only **efficient inside** the ridge lines.
- The marginal products of factors are negative and the methods of production are inefficient outside the ridge lines.



Q. PRODUCER'S EQUILIBRIUM/ LEAST COST PRODUCTION TECHNIQUE

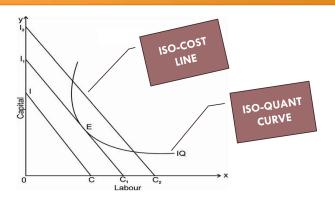
- ➤ **Producer's equilibrium** is also known as least cost combination of inputs and optimal combination of inputs.
- ➤ The main aim of any firm or a producer is **to maximise his profit** either by **increasing the level of output** or sale or by producing the output at **lower cost.**
- ➤ A firm by analyzing its production function can choose the combination of factors inputs which cost him least in his production which is technically efficient.
- > There are two ways to determine the least cost combination of factors to produce the given output.
 - a) Finding the Total cost of Factor combinations.
 - b)Geometrical method.

A)FINDING THE TOTAL COST OF FACTOR COMBINATION:.

Method	Labour (units)	Capital (units)	Labour cost (100 per unit)	Capital cost (200 per unit)	Total cost
A	8	10	8×100 = 800	10×200 = 2000	2800
В	6	15	6×100 = 600	15×200 = 3000	3600

- The producer has to choose any to the combination or method where the cost of labour per unit is 100 Rs and cost of capital per is 200 Rs.
- If the **firm choose method A** where he can use 8 units of labour and 10 units of capital where the total cost of production is 2800 Rs.
- If he **chooses method B** where he can 6 units of labour and 15 units of capita to produce the same level of output and where the cost of production is 3600 Rs.
- It is efficient for the firm to choose method A then B because the same level of output can be produced at a leaser cost with method A.

GEOMETRICAL METHOD:

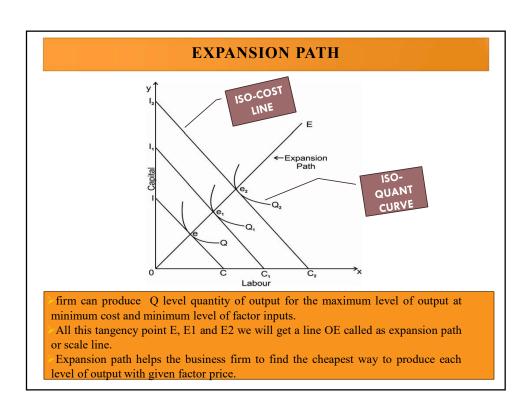


If the firm has to produce a product with the given output by the minimum cost, he will choose optimal minimising cost method.

In this method the firm will minimise its cost at the point where the iso quant is tangent to the iso cost line.

Q. EXPANSION PATH/ WRITE SHORT NOTE ON EXPANSION PATH. / WRITE SHORT NOTE ON EXPANSION PATH.

- > The expansion path in simple word is defined as the locus of the points of tangency between the isoquants and iso-cost lines.
- ➤ The expansion paths show how a business firm tries to expand his output in the long run with the given factor prices and the given various factor combinations.



ECONOMIES OF SCALE AND DISECONOMIES OF SCALE

Q. Explain the **INTERNAL** economies and

diseconomies of scale

(An increase in the scale or size of production or output of a firm these are solely enjoyable by firm)

Q. Explain the **EXTERNAL** economies and

diseconomies of scale

(Economy of scale enjoyed by all firms of industry irrespective of their size of operation)

Q. EXPLAIN THE **INTERNAL** ECONOMIES AND DISECONOMIES OF SCALE

Economies of Scale

- An increase in the scale or size of production or output of a firm
- Labour economies: Division of labour –Specialization efficiency in production
- Technical economies: change in technical or methods of production
- Managerial economies:
 Division of managerial activities business efficiently

Diseconomies of Scale

- If the firm is unable to manage the level of output diseconomies of scale occurs.
- If firm unable to bring specialisation of division of labour and management activities, there level of output decreases leads to diseconomies of scale in economy.

Economies of Scale

- Financial economies: large firms enjoy the benefit of better credit facility from banks then the small- scale firm
- Marketing economies: buying raw materials and selling of finished goods. A large firm have a great bargaining power-cheaper cost - buys in bulk.
- Transport and storage: large-scale firm have its own transport and storage facility - reduces his transportation and storage cost.

Diseconomies of Scale

• _*********

Q. EXPLAIN THE **EXTERNAL** ECONOMIES AND DISECONOMIES OF SCALE

Economies of Scale

- Localisation Economies:

 number of firms are located on one place with an objective of deriving the mutual benefits of training of skilled labour, provision of better transport facility etc.
- Disintegration means firms splitting up its operation and the process of manufacture and handing over the specialised agency and institution

Diseconomies of Scale

- To increase in the market price of factors of production
- There is an increasing in the total cost of production beyond the control of a company and it reduces the level of output.
- The external diseconomies are not suffered by a single firm but by whole firms operating in a given industry

Economies of Scale

- Information economies:
 - Networking with each other enables firms to make marketing and technical information easily
- By-product economies:
 This will help all the
 firm in the industry to
 reduce the waste in the
 economy and make
 efficient use of
 resources.

Diseconomies of Scale

- For example, Suppose a firm take huge amount of loan from a financial institution or banks to expand his level of output.
- Such loan increases the burden on firm to prove their credit leads to financial diseconomies of scale.

