## **CBSE Board**

## Class 12 | Microeconomics



## **CHAPTER-3 | Production and Costs**

**Explanation:** Since fixed cost is constant, as output

increases, AFC falls, forming a rectangular

hyperbola.

QUIZ-01

<ul> <li>1. What does the production function represent?</li> <li>A. Cost of production</li> <li>B. Relationship between output and profit</li> <li>C. Maximum output from given inputs</li> <li>D. Average cost of production (C)</li> </ul>	<ul> <li>6. In which case does the production function exhibit Increasing Returns to Scale (IRS)?</li> <li>A. Output increases less than proportionally</li> <li>B. Output increases more than proportionally</li> <li>C. Output remains constant</li> </ul>
Explanation: A production function shows the maximum quantity of output that can be produced from given quantities of inputs when used efficiently.	D. Input usage decreases (B)  Explanation: IRS means when all inputs are increased by a certain proportion, output increases by more than that proportion.
<ul> <li>2. In the short run, which of the following remains fixed?</li> <li>A. Output</li> <li>B. Revenue</li> <li>C. One of the factors of production</li> <li>D. Total cost</li> </ul>	7. Marginal Product is calculated as: A. Output per unit of labour B. Change in output per unit change in input C. Total cost divided by labour
<b>Explanation:</b> In the short run, at least one input (like capital or labour) remains fixed while others may vary.	D. Total product divided by capital (B)  Explanation: Marginal Product = Change in output /  Change in input, holding other inputs constant.
3. Isoquant is a curve that shows:  A. Same cost combinations  B. Same profit combinations  C. Same level of output  D. Same level of input  (C)	8. In the long run, all costs are:  A. Fixed B. Variable C. Constant D. Zero (B)  Explanation: In the long run, all factors are variable
<ul> <li>Explanation: An isoquant shows all combinations of two inputs that yield the same level of output.</li> <li>4. Which of the following is U-shaped? <ul> <li>A. Total Product curve</li> <li>B. Marginal Product curve</li> <li>C. Isoquant</li> </ul> </li> </ul>	<ul> <li>and hence all costs are variable.</li> <li>9. What does the Law of Diminishing Marginal Product state?</li> <li>A. MP increases with input</li> <li>B. MP is constant</li> <li>C. MP falls after a point as input increases</li> </ul>
<ul> <li>D. Production function (B)</li> <li>Explanation: The marginal product curve initially rises and then falls, forming an inverted U-shape.</li> <li>5. What is the shape of the Average Fixed Cost (AFC) curve?</li> <li>A. Upward sloping B. Horizontal C. Rectangular hyperbola</li> <li>D. Inverted U-shaped</li> </ul>	<ul> <li>D. MP equals total product (C)</li> <li>Explanation: The law states that beyond a certain point, marginal product of a variable input starts falling.</li> <li>10. Short Run Average Cost (SAC) equals: <ul> <li>A. AVC + AFC</li> <li>B. TC × q</li> </ul> </li> </ul>

C. TC - TVC

D.  $MP \times AP$ 

**Explanation:** SAC is the sum of Average Variable

Cost and Average Fixed Cost.

(A)