CLASS 12 | ECONOMICS



CHAPTER-3 | **Production and Costs**

QUIZ PART-02

1	Fixed	factors	of proc	luction	are tho	se which
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- A. Vary directly with the level of output
- B. Remain unchanged regardless of output level
- C. Always increase as production expands
- D. Can be substituted freely with labour (D)

Explanation: Fixed factors such as land, factory space, or machinery remain constant in the short run, irrespective of output.

- 2. Variable factors of production include
 - A. Land and factory buildings
 - B. Labour, raw materials, and transport services
 - C. Machinery and managerial personnel
 - D. Technology and patents

(B)

- Explanation: Variable factors change with output and can be increased or decreased as needed. such as labour and raw materials.
- 3. The law of variable proportions states that as units of a variable factor increase while keeping others
 - A. TP rises at an increasing rate, then at a diminishing rate, and finally falls
 - B. TP falls continuously with more input
 - C. TP always rises at a constant rate
 - D. MP remains constant at all levels

Explanation: The law of variable proportions highlights three phases: increasing returns, diminishing returns, and negative returns.

- 4. In Phase I of the law of variable proportions, total product (TP)
 - A. Rises at a decreasing rate
 - B. Rises at an increasing rate
 - C. Falls with more input
 - D. Remains constant

(A)

- Explanation: During Phase I, each additional unit of the variable factor increases TP at an increasing rate as MP also rises.
- 5. In Phase II of the law of variable proportions, marginal product (MP)
 - A. Rises continuously
 - B. Falls but remains positive
 - C. Becomes negative
 - D. Remains constant N N O a d

Explanation: In Phase II, TP increases at a diminishing rate, while MP decreases but stays positive.

- 6. In Phase III of the law of variable proportions,
 - A. MP becomes negative and TP falls
 - B. MP rises and TP increases at an increasing rate
 - C. TP is constant and MP is positive
 - D. Both TP and MP remain unchanged (A)

Explanation: In this stage, too many variable inputs reduce efficiency, MP turns negative, and TP declines.

- 7. The law of diminishing marginal returns states that increasing a factor beyond a certain point
 - A. Leads to constant increases in output
 - B. Results in smaller and smaller increases in output
 - C. Makes TP grow at an increasing rate
 - D. Eliminates fixed factors of production (B)

Explanation: The law of diminishing marginal returns shows that after a certain level, additional variable input adds less to output.

- 8. The law of variable proportions is applicable in the
 - A. Long run only
- B. Short run only
- C. Medium run only
- D. Both short and long run

Explanation: The law applies to the short run where at least one factor is fixed while others vary.

- 9. According to the law of variable proportions, producers never operate in Phase III because
 - A. TP increases at a diminishing rate
 - B. MP is still positive
 - C. TP falls and MP is negative
 - D. AP is constant

(C)

- **Explanation:** Phase III is economically irrational since additional inputs reduce total output; hence producers avoid it.
- 10. The main difference between returns to a factor and returns to scale is that
 - A. Returns to a factor apply when all inputs vary, while returns to scale keep inputs fixed
 - B. Returns to a factor vary one input with others fixed; returns to scale vary all inputs
 - C. Both apply only in the long run
 - D. Both always result in negative returns
- Explanation: Returns to a factor examine changes in output when one input changes while others remain fixed, whereas returns to scale study changes when all inputs vary.