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4 MCQs Biology XII Notes

In Biology XII, students encounter a comprehensive range of topics that require a deep understanding of biological concepts. MCQs (Multiple Choice Questions) are a valuable tool for assessing students' comprehension and reinforcing key concepts. Here are four insightful MCQs with detailed answers to aid your preparations for the Biology XII exam:

MCQ 1:

Which of the following is NOT a characteristic of viruses?

- (a) They lack a cell wall and plasma membrane
- (b) They can replicate independently
- (c) They are composed of a single or double-stranded DNA
- (d) They are obligate parasites

Answer: (b)

Explanation: Viruses are obligate parasites, meaning they cannot replicate independently but rely on a host cell to provide the necessary machinery.

MCQ 2:

The process by which plants use sunlight to convert carbon dioxide and water into glucose is known as:

- (a) Photosynthesis
- (b) Respiration
- (c) Fermentation
- (d) Glycolysis

Answer: (a)

Explanation: Photosynthesis is the natural process by which plants harness light energy to synthesize carbohydrates from carbon dioxide and water.

MCQ 3:

Which of the following is the correct sequence of stages in the cell cycle?

(a) Interphase, Prophase, Metaphase, Anaphase, Telophase (b) Prophase, Interphase, Metaphase, Anaphase, Telophase (c) Interphase, Prophase, Metaphase, Telophase, Anaphase (d) Prophase, Metaphase, Anaphase, Interphase, Telophase

Answer: (a)

Explanation: The cell cycle progresses sequentially through interphase, where the majority of cell growth and DNA replication occur, followed by prophase, metaphase, anaphase, and telophase, which constitute mitosis.

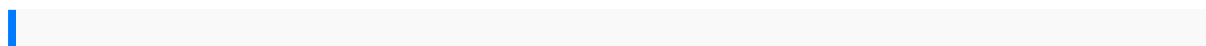
MCQ 4:

Which of the following is a benefit of genetic engineering?

(a) Improved crop yield and nutritional value (b) Development of gene therapies to treat diseases (c) Bioremediation of polluted environments (d) All of the above

Answer: (d)

Explanation: Genetic engineering encompasses a wide range of techniques that allow scientists to manipulate the genetic material of organisms, resulting in a multitude of potential benefits, including improved crop yield, development of gene therapies, and bioremediation efforts.



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