

Assignment - BioChemistry

1. Which of the following is a primary function of carbohydrates in the human body?

- A) Providing structural support to cells
- B) Acting as a source of immediate energy
- C) Regulating gene expression
- D) Serving as a long-term energy storage

2. What is the role of enzymes in biochemical reactions?

- A) Lowering the activation energy required
- B) Increasing the reaction rate exponentially
- C) Changing the equilibrium constant
- D) Reversing the reaction direction

3. Which amino acid is classified as non-essential, as it can be synthesized in the body?

- A) Glutamine
- B) Arginine
- C) Tryptophan
- D) Glycine

4. Which lipid is a major component of cell membranes and is involved in cellular signaling?

- A) Cholesterol
- B) Phospholipids
- C) Triglycerides
- D) Steroids

5. What is the primary role of DNA in the cell?

- A) Energy storage
- B) Genetic information storage
- C) Cellular respiration
- D) Protein synthesis