

## Biomolecules Quiz PDF

### Biomolecules Quiz PDF

Disclaimer: *The biomolecules quiz pdf was generated with the help of StudyBlaze AI. Please be aware that AI can make mistakes. Please consult your teacher if you're unsure about your solution or think there might have been a mistake. Or reach out directly to the StudyBlaze team at [max@studyblaze.io](mailto:max@studyblaze.io).*

**Which level of protein structure involves the sequence of amino acids?**

- Primary
- Secondary
- Tertiary
- Quaternary

**Which of the following is a disaccharide?**

- Glucose
- Fructose
- Sucrose
- Starch

**Discuss the impact of protein misfolds on human health, providing an example.**

**Which of the following is a component of nucleic acids?**

- Amino acids
- Fatty acids
- Nucleotides
- Monosaccharides

**How do enzymes lower the activation energy of biochemical reactions?**

**Which molecule is known as the "energy currency" of the cell?**

- DNA
- ATP
- RNA
- Glucose

**Which of the following is NOT a function of proteins?**

- Catalysis
- Energy storage
- Transport
- Immune response

**Explain the role of ATP in cellular metabolism.**

**Which processes are involved in gene expression? (Select all that apply)**

- Transcription
- Translation
- Replication
- Glycolysis

**Describe the central dogma of molecular biology and its significance.**

**Which of the following are functions of lipids? (Select all that apply)**

- Energy storage
- Genetic information storage
- Membrane structure
- Hormone production

**Which factors can affect enzyme activity? (Select all that apply)**

- Temperature
- pH
- Substrate concentration
- Light intensity

**Which of the following are structural components of proteins? (Select all that apply)**

- Amino acids
- Nucleotides
- Peptide bonds
- Fatty acids

**What is the primary function of carbohydrates in the body?**

- Energy storage
- Genetic information storage
- Catalysis
- Hormone production

**Which type of biomolecule is primarily responsible for catalyzing biochemical reactions?**

- Carbohydrates
- Lipids
- Proteins

Nucleic acids

**What is the main structural component of cell membranes?**

- Proteins
- Phospholipids
- Carbohydrates
- Nucleic acids

**Explain how the structure of the phospholipid bilayer contributes to its function in the cell membrane.**

**Which of the following are components of the cell membrane? (Select all that apply)**

- Phospholipids
- Proteins
- Nucleotides
- Cholesterol

**Which of the following are types of RNA? (Select all that apply)**

- mRNA
- tRNA
- rRNA
- dRNA

**What are the structural differences between DNA and RNA, and how do these differences relate to their functions?**

