

## Macromolecules Quiz PDF

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#### Which of the following are examples of lipids? (Select all that apply)

- Triglycerides
- Phospholipids
- Hemoglobin
- Cellulose

#### Which macromolecule can function as an enzyme?

- Carbohydrates
- Lipids
- Nucleic acids
- Proteins

#### What is the process called when water is removed to join two monomers?

- Hydrolysis
- Dehydration synthesis
- Reduction
- Oxidation

#### Which of the following are components of nucleotides? (Select all that apply)

- Amino acids
- Sugar
- Phosphate group
- Nitrogenous base

#### Which macromolecules are involved in energy storage? (Select all that apply)

- Carbohydrates
- Lipids

- Proteins
- Nucleic acids

**Which macromolecule is a major component of cell membranes?**

- Proteins
- Carbohydrates
- Nucleic acids
- Lipids

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

- Catalyzing biochemical reactions
- Providing energy
- Insulating the body
- Storing genetic information

**Which macromolecule primarily stores genetic information?**

- Carbohydrates
- Lipids
- Nucleic acids
- Proteins

**What is the significance of nucleic acids in living organisms?**

**Discuss the importance of lipids in biological membranes.**

**Which of the following are types of bonds found in macromolecules? (Select all that apply)**

- Covalent bonds
- Hydrogen bonds
- Metallic bonds
- Ionic bonds

**What type of bond holds amino acids together in proteins?**

- Hydrogen bond
- Peptide bond
- Van der Waals forces
- Ionic bond

**Which test is used to identify the presence of proteins?**

- Benedict's test
- Biuret test
- Sudan III test
- Iodine test

**Describe the primary structure of a protein and its significance.**

**Which structures are part of a protein's secondary structure? (Select all that apply)**

- Alpha-helix
- Peptide bond
- Quaternary structure
- Beta-sheet

**How does the structure of carbohydrates relate to their function in energy storage?**

**How do enzymes, as proteins, facilitate biochemical reactions?**

**Which of the following is a polymer of glucose?**

- DNA
- Hemoglobin
- Triglyceride
- Starch

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

- Energy storage
- Catalysis of reactions
- Genetic information storage
- Structural support

**Explain the role of dehydration synthesis in forming macromolecules.**

