

# **Biology Chapter 2 Self Quiz PDF**

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#### Which subatomic particle is negatively charged?

- Proton
- Neutron
- Electron
- Nucleus

#### What is the primary role of DNA in cells?

- Energy production
- O Protein synthesis
- Genetic information storage
- Cell membrane structure

#### Which macromolecule is primarily responsible for catalyzing biochemical reactions?

- Carbohydrates
- C Lipids
- Proteins
- Nucleic acids

#### What type of bond involves the sharing of electron pairs between atoms?

- ◯ lonic bond
- O Covalent bond
- O Hydrogen bond
- O Metallic bond

#### Which property of water allows it to dissolve many substances?

- Cohesion
- O Adhesión



○ Polarity

○ High specific heat

## What is the monomer unit of proteins?

- Monosaccharide
- $\bigcirc$  Amino acid
- $\bigcirc$  Nucleotide
- Fatty acid

# What is the primary function of carbohydrates in cells?

- Genetic information storage
- $\bigcirc$  Energy storage and supply
- Structural support
- Catalyzing reactions

# Which of the following is a property of water that helps regulate temperature in organisms?

- ◯ Low density
- High specific heat
- ⊖ High pH
- Low surface tension

# Explain the significance of hydrogen bonds in the properties of water and the structure of DNA.

Compare and contrast the structure and function of DNA and RNA.

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## Which of the following are properties of water that are essential for life? (Select all that apply)

- Cohesion
- High specific heat
- Low boiling point
- Solvent properties

# Which of the following are types of carbohydrates? (Select all that apply)

- Monosaccharides
- Amino acids
- Disaccharides
- Polysaccharides

# Explain how the structure of water contributes to its role as a universal solvent.

How do buffer systems help maintain pH balance in biological systems? Provide an example.

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# Which macromolecules are involved in genetic information storage and transfer? (Select all that apply)

- Carbohydrates
- Proteins
- DNA
- 🗌 RNA

#### What are the characteristics of enzymes? (Select all that apply)

- They are proteins
- They increase the activation energy of reactions
- They are reusable
- They are specific to substrates

#### Which of the following are functions of lipids in biological systems? (Select all that apply)

- Energy storage
- Catalyzing reactions
- Cell membrane structure
- Genetic information storage

# Describe the role of enzymes in biological reactions and how they affect activation energy.

## Which elements are most commonly found in organic molecules? (Select all that apply)

- Hydrogen
- 🗌 Helium
- Carbon
- Oxygen

#### Discuss the importance of carbon in forming the backbone of biological molecules.

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