

Biology Chapter 2 Self Quiz PDF Answers In Appendix LII

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Which factors can affect enzyme activity? (Select all that apply)
☐ Temperature ☐ pH
Substrate concentration
Light intensity
What is the primary element that forms the backbone of organic molecules?
○ Hydrogen
○ Carbon
○ Nitrogen
Oxygen
Which of the following are functions of lipids in biological systems? (Select all that apply)
☐ Energy storage
☐ Structural component of cell membranes
Genetic information storage
Insulation
Which of the following are components of the cell membrane? (Select all that apply)
Phospholipids
Proteins
☐ Nucleic acids
Carbohydrates
Which of the following is a characteristic of prokaryotic cells?
O Presence of a nucleus
○ Membrane-bound organelles

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Multicellular organizationSingle circular DNA molecule
Which of the following is NOT a function of proteins?
○ Enzyme catalysis
○ Genetic information storage
○ Transport
○ Structural support
Which of the following are properties of water that make it essential for life? (Select all that apply)
High heat capacity
Universal solvent
Low surface tension
Ability to form hydrogen bonds
Discuss the importance of carbohydrates in cellular respiration.
Explain how the properties of water contribute to its role as a universal solvent.

How do prokaryotic and eukaryotic cells differ in terms of genetic material organization?



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What is the significance of the high specific heat capacity of water for living organisms?	
Describe the structure of a phospholipid and its role in the cell membrane.	
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Which of the following are true about eukaryotic cells? (Select all that apply)	
☐ They have a nucleus.	
☐ They lack membrane-bound organelles.	
☐ They can be unicellular or multicellular.	
☐ Their DNA is linear.	
What is the primary function of nucleic acids?	
○ Energy storage	
○ Information storage	
○ Structural support	

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○ Catalysis



Which macromolecules are polymers? (Select all that apply)
☐ Proteins
☐ Lipids
_ Carbohydrates
☐ Nucleic acids
Which organelle is responsible for energy production in eukaryotic cells?
○ Nucleus
○ Ribosome
○ Golgi apparatus
○ Mitochondria
Which macromolecule serves as the main source of energy for cells?
○ Proteins
○ Carbohydrates
○ Nucleic acids
○ Lipids
What type of bond holds water molecules together?
○ Ionic bond
Ocvalent bond
O Metallic bond
O Hydrogen bond
Explain the role of enzymes in metabolic reactions.

What is the basic unit of life according to cell theory?

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○ Atom
○ Cell
$\bigcirc \ Organism$
○ molecule

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