

Macromolecules Exit Quiz

I. Multiple Choices

1. The breakdown of polymers into monomers occurs through a process known as _____.
 - a) hydrolysis
 - b) denaturation
 - c) condensation reaction
 - d) dehydration synthesis

2. What is the function of a carbohydrate?
 - a) Quick energy
 - b) Movement
 - c) Stores genetic information
 - d) Speeds up reactions

3. Which of the following is a characteristic of lipids?
 - a) They are composed of nitrogenous chains.
 - b) They are polar molecules.
 - c) They are either fats or oils.
 - d) They are not soluble in water.

4. Which of the following bonds are formed between the amino acids?
 - a) Glycosidic linkages
 - b) Hydrogen bonds
 - c) Ester linkage
 - d) Peptide bonds

5. Which of the following macromolecules contains C, H, O, N and P?
 - a) Amino acids
 - b) Hormones
 - c) Nucleic acids
 - d) Carbohydrates

Macromolecules Exit Quiz

II. Match each description with the correct macromolecules

Macromolecule	Description
_____ 1. Lipid	A. Steroids and cholesterol molecules.
_____ 2. Nucleic acid	B. It helps provide the shape of plant cell.
_____ 3. Protein	C. Contain the genetic information.
_____ 4. Carbohydrate	D. Speed up and slow down the biochemical reactions.

III. List four of the Protein's functions in the living organisms.

IV. What are the structural differences between a saturated and an unsaturated fatty acids?

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Answers

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Macromolecule	Description
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_____ 2. Nucleic acid (C)	B. It helps provide the shape of plant cell.
_____ 3. Protein (D)	C. Contain the genetic information.
_____ 4. Carbohydrate (B)	D. Speed up and slow down the biochemical reactions.

III. List four of the Protein's functions in the living organisms.

List any four functions from the following

1. Contraction of muscle tissue
2. Transportation of oxygen in the bloodstream
3. Providing immunity
4. Regulating other proteins
5. Carrying out chemical reactions.

IV. What are the structural differences between a saturated and an unsaturated fatty acids?

Unsaturated fatty acids have a double bond between at least two carbons while in the saturated fatty acids, the carbon atoms in the chain is bonded to other carbons by single bonds.