

## Macromolecules - Answers

1. An amino acid contains a central carbon atom, a hydrogen atom, a carboxyl group, an amino group group, and a differing R group.
2. What is a dipeptide? What type of bond is involved? = two amino acids joined via a peptide bond.
3. A nucleotide is a monomer of nucleic acids. There are 4 (how many) different types of nucleotides. (for either RNA or DNA)
4. State two functions of fats.  
long term energy storage  
insulation  
lubrication  
cushioning
5. What is the structure of a phospholipid? hydrophilic head group, with a phosphate - always charged and a group of atoms (ex. choline, serine); two hydrophobic tails, fatty acids with long hydrocarbon chains
6. ATP is a molecule that stores a great deal of energy within its phosphate bonds. True or False? True
7. Name and state the structure of a common dissaccharide.  
two sugars joined via covalent bond; ex. glucose-glucose = maltose; glucose-fructose = sucrose
8. Name and state the structure of a common polysaccharide.  
glycogen and starch = polymers of alpha glucose; storage form of glucose in animals and plants  
cellulose = polymers of beta glucose; rigid structure in plant cell walls  
chitin = polymer of glucosamine; very strong and flexible; found in exoskeletons of arthropods
9. Heating an enzyme to a certain temperature usually destroys its enzymatic activity even though the same sequence of amino acids remains. Name and explain the levels of structure that have been affected by heating.  
secondary structure = alpha helices, beta pleated sheets, random coils  
tertiary structure = overall three dimensional conformation, or shape, of the polypeptide  
quaternary structure = assembly of subunits  
  
primary structure = chain of amino acids; usually remains intact upon denaturation due to strong peptide bonds.

# Prentice Hall Biology Study Guide Macromolecules Answers

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**Prentice Hall Biology Study Guide Macromolecules Answers:**

## **Prentice Hall Biology Study Guide Macromolecules Answers** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Prentice Hall Biology Study Guide Macromolecules Answers**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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