

## 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.

# Macromolecules Guide Answers

**Marc le Maire, Raymond Chabaud, Guy  
Hervé**



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What Is Life? A Guide to Biology W/Prep-U Jay Phelan, 2009-04-30 Jay Phelan's *What is Life A Guide to Biology* is written in a delightfully readable style that communicates complex ideas to non biology majors in a clear and approachable manner. After reading Phelan's book students will understand why they would want to know and talk about science. His skillful style includes asking stimulating questions called Q questions which encourage the student to keep reading to find the answer and will illuminate just how relevant science is to their life. *Solutions Manual to Accompany Physical Chemistry for the Life Sciences* C. A. Trapp, M. P. Cady, 2011 This solutions manual contains fully worked solutions to all end of chapter discussion questions and exercises featured in *Physical Chemistry for the Life Sciences* Guide to Programs National Science Foundation (U.S.), 1996 **GCE O Level Examination Past Papers with Answer Guides: Chemistry India Edition** Cambridge International Examinations, 2003-12-16 These Collections Of The Official Past Papers Of The Gce O Level Examinations From The University Of Cambridge International Examinations Has Been Developed For Students Of Gce O Level These Books Will Act As Tools For Preparation And Revision For Students These Books Have An Edited Answer Guide For Each Paper Based On The Marks Scheme Written By Cie Principal Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues. Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography. Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations. Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts. Annotation copyrighted by Book News Inc Portland OR *Multiple Choice Questions: Human Body Biochemistry* E Staff, Learn and review on the go Use Quick Review Anatomy Physiology Study Notes to help you learn or brush up on the subject quickly. You can use the review notes as a reference to understand the subject better and improve your grades. Easy to remember facts to help you perform better. Use typical multiple choice questions to quickly solidify your knowledge. Perfect study notes for all high school health sciences premed medical and nursing students.

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### **Table of Contents Macromolecules Guide Answers**

1. Understanding the eBook Macromolecules Guide Answers
  - The Rise of Digital Reading Macromolecules Guide Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Macromolecules Guide Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Macromolecules Guide Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Macromolecules Guide Answers
  - Personalized Recommendations
  - Macromolecules Guide Answers User Reviews and Ratings
  - Macromolecules Guide Answers and Bestseller Lists



5. Accessing Macromolecules Guide Answers Free and Paid eBooks
  - Macromolecules Guide Answers Public Domain eBooks
  - Macromolecules Guide Answers eBook Subscription Services
  - Macromolecules Guide Answers Budget-Friendly Options
6. Navigating Macromolecules Guide Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Macromolecules Guide Answers Compatibility with Devices
  - Macromolecules Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Macromolecules Guide Answers
  - Highlighting and Note-Taking Macromolecules Guide Answers
  - Interactive Elements Macromolecules Guide Answers
8. Staying Engaged with Macromolecules Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Macromolecules Guide Answers
9. Balancing eBooks and Physical Books Macromolecules Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Macromolecules Guide Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Macromolecules Guide Answers
  - Setting Reading Goals Macromolecules Guide Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Macromolecules Guide Answers
  - Fact-Checking eBook Content of Macromolecules Guide Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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