

# BIO101 TEST GUIDE (#1)

## LO1 - Life Science

- LO: Describe elements of research design and how they impact conclusions
  - sample size, randomization, double blind, strengths & weaknesses
  - caveation @ causation
- LO: Formulate testable hypothesis & design controlled exp
- LO: Distinguish science from unjustified claims

## LO2 - Macromolecules

- LO: name & explain 6 major themes of biology
- LO: classify polysaccharides based off their structure/function in plants/animals & describe how formed
  - 4 major macromolecules (biological polymers) in cell:
    - Carbohydrates (monosaccharide + monosaccharide  $\rightarrow$  polysaccharide +  $H_2O$ )
    - Lipids
    - Proteins
    - Nucleic Acids



- | 4 polysaccharides!                |
|-----------------------------------|
| 1. Starch: Storage in plants      |
| 2. Glycogen: Storage in animals   |
| 3. Cellulose: Structure in plants |
| 4. Chitin: Structure in animals   |

## Hydrolysis & Dehydration Reactions

- Hydrolysis: breaks polymers into monomers by adding  $H_2O$
- Dehydration reaction: links monomers together,  $H_2O$  released



- LO: define lipids & explain their functions & properties in polar/nonpolar

## Lipids = nonpolar & hydrophobic

4 important types of lipids: fats, phospholipids, cholesterol, and steroids

1. Fats (monomer = glycerol & fatty acids) (aka. a triglyceride = "3" & "glycerol")

unsaturated fats/triglycerides: hydrocarbon chain has 1+ double bond (can't pack tight  $\therefore$  liquid)

saturated fats/triglycerides: no double bonds (can pack easily  $\therefore$  solid)

2. Phospholipids (hydrophilic head (glycerol + phosphate mol) + 2 hydrophobic tails)

"amphiphilic" molecule

form phospholipid bilayer



- LO: draw protein structure & depict the consequence of mutations on normal structure & function

Proteins' monomers are amino acids. Amino acid + amino acid = dipeptide

1. Primary structure in proteins = just the sequence of the amino acids in order

amino acid.  $\star$  peptide bonds b/w amino group of 1 amino acid & carboxyl of another

2. Secondary structure in proteins = H-bonds b/w amino acid & carboxyl of another



3. Tertiary structure in proteins = overall 3-D shape of polypeptide due to R-group interactions b/w amino acids

4. Quaternary structure (NOT ALL HAVE)  $\rightarrow$  R-group interactions b/w multiple polypeptide chains



see mutated amino acid can affect/ruin the entire polypeptide structure &  $\therefore$  function

one incorrect/misplaced amino acid can make protein defective bc specific R-groups & orders cause each protein's unique folds & functions

- LO: identify how human body uses macromolecules from food

Eat for 2 reasons:

- Raw organic macromolecular materials for building our own macromolecules
- Energy for cellular work

# General Biology College Study Guide

**Carol Hardy McFadden**



## General Biology College Study Guide:

*The Complete Idiot's Guide to College Biology* Emily Jane Willingham Ph.D., 2010-06-01 Biology is the study of life the structure function growth origin and evolution of living things Biology and chemistry work together to create what many people think of as science And passing Biology 101 in college is the entryway to further study in the sciences if you can't do well in it you aren't moving ahead The Complete Idiot's Guide to College Biology follows the curriculum to Biology 101 so closely that it serves as a perfect study guide to it and it's also great for the AP Biology and SAT Subject Biology exams that high school students are taking in droves Students can turn to it when their textbooks are unclear or as an additional aid throughout the semester The guide covers Complicated processes such as photosynthesis and cellular respiration Explanations of complex biology from DNA to ecosystems Offers online extras including a chapter on microbes and an extended glossary Suitable for the new learner or as a refresher for former students The Complete Idiot's Guide to College Biology brings biology to the reader in a relaxed accessible way **General Biology** College Network, 2000 *General Biology* Jack Rudman, National Learning Corporation, 2002 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1978 *General Biology - Biology 1010*, *CLEP Official Study Guide* College Entrance Examination Board, 2000-06-27 The College Level Examination Program is used to award full college credit for demonstrating college level achievement in a variety of subjects This official guide developed by the sponsors of the CLEP Exam includes sample questions and answers for all 34 examinations as well as a list of study resources and test preparation guidelines

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### **Table of Contents General Biology College Study Guide**

1. Understanding the eBook General Biology College Study Guide
  - The Rise of Digital Reading General Biology College Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying General Biology College Study Guide
  - 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 an General Biology College Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from General Biology College Study Guide
  - Personalized Recommendations

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

- 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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