

# 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

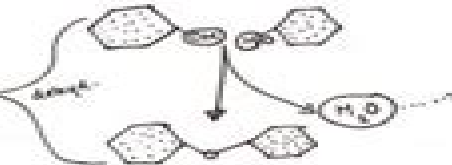
- LO: name & explain 6 major themes of biology
- LO: classify polysaccharides based off their structure/function in plants/animals & describe how formed
  - 4 major macromolecules (biological polymers) in cell:
    - Carbohydrates (monosaccharide + monosaccharide  $\rightarrow$  polysaccharide +  $H_2O$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



hydrocarbon fatty acids

- 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

peptide bonds b/w amino group of 1 amino acid & carboxyl of another

2. Secondary structure in proteins = H-bonds b/w amino group of 1 amino acid & carboxyl of another



alpha helix



beta sheet

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



(interactions b/w R-groups cause fold)



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

**Douglas G. Fratianne**



## **General Biology College Study Guide:**

*General Biology* College Network,2000      **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 - Biology 1010* ,      **General Biology** Jack Rudman,National Learning Corporation,2002      *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1978      **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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web catan previously known as the settlers of catan or simply settlers is a multiplayer board game designed by klaus teuber it was first published in 1995 in germany by franckh kosmos verlag kosmos as die siedler von catan pronounced di: 'zi:dlɐ fɔn ka'ta:n

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