

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

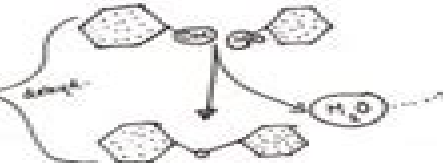
- LO: name & explain 6 major themes of biology
- LO: classify polysaccharides based off their structure/function in plants/animals & describe how formed
 - 4 major macromolecules (biological polymers) in cell:
 - Carbohydrates (monosaccharide + monosaccharide $\rightarrow$ polysaccharide + H_2O)
 - Lipids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

101 Biology Study Guide Answers 23536

Daniel F McAuley



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Scientific and Technical Books and Serials in Print, 1989 **Books in Print Supplement**, 1982 **Paperbacks in Print**, 1978 **Forthcoming Books** Rose Arny, 2001 Understanding Biology, 1992 *The Complete Idiot's Guide to College Biology* Emily Jane Willingham, Ph.D., 2010-06-01 Don't know much about biology The Complete Idiot's Guide to College Biology follows the curriculum of Biology 101 so closely that it serves as a perfect study guide and it's also great for 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 number of high school students who took AP Biology in 2008 increased 7 percent over the previous year more than 154 000 College biology doesn't just lead to medical dental or veterinary school biotechnology and biochemical jobs remain hot in today's job market Follows in the footsteps of The Complete Idiot's Guides as a terrific supplementary reading for AP Biology though it follows the curriculum of the college Intro to Biology course *Biology* Kenneth Raymond Miller, Joseph Levine, 1993

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