

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
 - causation @ correlation
- 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 (close 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

Study Guide For Biology Teaching Exam

Sharon Wynne



Study Guide For Biology Teaching Exam:

MTTC Biology (017) Study Guide Mttc Biology Exam Prep Team,Cirrus Test Prep,2016-11-15 MTTC Biology 017 Study Guide Exam Prep and Practice Test Questions for the Michigan Test for Teacher Certification will provide you with a detailed overview of the MTTC Biology exam so you know exactly what to expect on test day We ll take you through all the concepts covered on the test and give you the opportunity to test your knowledge with practice questions Even if it s been a while since you last took a major test don t worry we ll make sure you re more than ready Cirrus Test Prep s MTTC Biology 017 Study Guide Exam Prep and Practice Test Questions for the Michigan Test for Teacher Certification includes A comprehensive REVIEW of The Nature of Science Molecular and Cellular Biology Genetics and Evolution Biological Classification Animals Plants Ecology Technology and Social Perspectives as well as TWO FULL MTTC Biology practice tests About Cirrus Test Prep Developed by experienced current and former educators Cirrus Test Prep s study materials help future educators gain the skills and knowledge needed to successfully pass their state level teacher certification exams and enter the classroom Each Cirrus Test Prep study guide includes a detailed summary of the test s format content and scoring an overview of the content knowledge required to pass the exam worked through sample questions with answers and explanations full length practice tests including answer explanations and unique test taking strategies with highlighted key concepts Cirrus Test Prep s study materials ensure that new educators feel prepared on test day and beyond [NYSTCE Biology Study Guide](#) Nystce Biology Exam Prep Team,Cirrus Test Prep,2016-11-15 NYSTCE Biology Study Guide Exam Prep and Practice Test Questions for the New York State Teacher Certification Examinations will provide you with a detailed overview of the NYSTCE Biology exam so you know exactly what to expect on test day We ll take you through all the concepts covered on the test and give you the opportunity to test your knowledge with practice questions Even if it s been a while since you last took a major test don t worry we ll make sure you re more than ready Cirrus Test Prep s NYSTCE Biology Study Guide Exam Prep and Practice Test Questions for the New York State Teacher Certification Examinations includes A comprehensive REVIEW of The Nature of Science Molecular and Cellular Biology Genetics and Evolution Biological Classification Animals Plants Ecology Technology and Social Perspectives as well as TWO FULL NYSTCE Biology practice tests About Cirrus Test Prep Developed by experienced current and former educators Cirrus Test Prep s study materials help future educators gain the skills and knowledge needed to successfully pass their state level teacher certification exams and enter the classroom Each Cirrus Test Prep study guide includes a detailed summary of the test s format content and scoring an overview of the content knowledge required to pass the exam worked through sample questions with answers and explanations full length practice tests including answer explanations and unique test taking strategies with highlighted key concepts Cirrus Test Prep s study materials ensure that new educators feel prepared on test day and beyond [FTCE Biology 6-12 Teacher Certification Exam Study Guide](#) Ftce Biology Exam Prep Team,Cirrus Test Prep,2016-11-15 FTCE

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test questions a sample essay and answer rationales is also provided for additional study **Cset Biology-Life Science 120, 124 Teacher Certification Test Prep Study Guide** Sharon A. Wynne, 2008 Annotation I just got back from the 120 subtest for Biology Life Science and I was very disappointed with this book The book and practice test was not even close to preparing me for the test Luckily I had already studied the biology portion when I took the PCAT not too long ago This book was way too basic compared to the kinds of questions that were asked They seem to be more conceptual as can you interpret the information you just learned into the answer You re pretty much better off learning from an AP Biology study book

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MTEL Biology 13 Sharon Wynne,2006-09 This guide aligned specifically to standards prescribed by the Massachusetts Department of Education covers the content found on the MTEL Biology test It includes 125 sample test questions Study Guides

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Study Guide For Biology Teaching Exam Book Review: Unveiling the Power of Words

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