

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

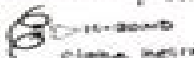
1. Primary structure in proteins = just the sequence of the amino acids in order



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 pleated

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 (CHARGE ATTR)



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:

1. Raw organic molecular materials for building our own macromolecules
2. Energy for cellular work

Test Study Guide Biology

Inc. Accepted



Test Study Guide Biology:

Praxis II Biology (5235) Study Guide Trivium Test Trivium Test Prep, 2013-10-07 Think all Praxis II Biology study guides are the same Think again With easy to understand lessons and practice test questions designed to maximize your score you ll be ready You don t want to waste time and money retaking an exam You want to accelerate your education not miss opportunities for starting your future career Every year thousands of people think that they are ready for the Praxis II Biology but realize too late when they get their score back that they were not ready at all They weren t incapable and they certainly did their best but they simply weren t studying the right way There are a variety of methods to prepare for the Praxis II Biology exam and they get a variety of results Trivium Test Prep s Praxis II Biology study guide provides the information secrets and confidence needed to get you the score you need the first time around Losing points on the Praxis II Biology exam can cost you precious time money and effort that you shouldn t have to spend What is in the book In our Praxis II Biology study guide you get the most comprehensive review of all tested concepts The subjects are easy to understand and have fully explained example questions to ensure that you master the material Best of all we show you how this information will be applied on the real exam Praxis II Biology practice questions are included so that you can know without a doubt that you are prepared Our study guide is streamlined and concept driven so you get better results through more effective study time Why spend days or even weeks reading through meaningless junk trying to sort out the helpful information from the fluff We give you everything you need to know in a concise comprehensive and effective package *NES Biology Test Prep Study Guide* Nes Biology Exam Prep Team, Cirrus Test Prep, 2016-11-15 NES Biology Test Prep Study Guide Review Book and Practice Test Questions for the National Evaluation Series Biology Exam will provide you with a detailed overview of the NES 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 NES Biology Test Prep Study Guide Review Book and Practice Test Questions for the National Evaluation Series Biology Exam 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 NES Biology Content Knowledge 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 **NES Biology Study Guide** Trivium

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ASAP Biology: A Quick-Review Study Guide for the AP Exam The Princeton Review,2018-01-30 Looking for sample

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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

The Official SAT Subject Test in Biology Study Guide The College Board,2017-03-07 The Official SAT Subject Test in Biology Study Guide is the best way to get ready for the SAT Subject Tests in Biology Created from the makers of the Subject Tests this guide offers never been released forms of actual past Biology exams for students to gain real practice Students will receive 2 full length previously administered tests in Biology Detailed answer explanations for every question in both tests Exclusive test taking approaches and tips from the actual test maker

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5 Steps to a 5: 500 AP Biology Questions to Know by Test Day, Fourth Edition Mina Lebitz,2022-02-21 The only study guide you'll need for the AP Biology test revised and updated now with a 20 question Diagnostic Quiz Confidence is key when taking any exam and it will come easier if you spend your test prep time wisely even if you've been so busy that you've put off preparing until the last weeks before the exam You'll find the smartest most effective test prep in 5 Steps to a 5 500 AP Biology Questions to Know by Test Day Fourth Edition Written by an expert in the field who knows the exam inside and out the questions closely resemble those you'll face on exam

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2019-2020 Inc. Biology Subject Test Accepted, 2018-06-16 **AP Biology 2018 Review Book** Ap Biology Review Book Team, 2018-02-13 AP Biology 2018 Review Book Test Prep Book Study Guide for the College Board AP Biology Exam Developed for test takers trying to achieve a passing score on the AP Biology Exam this comprehensive study guide includes Quick Overview Test Taking Strategies Introduction to the AP Biology Exam Evolution Biological Systems and Use of Energy Living Systems Storage Retrieval Transmittal and Response to Information Interaction of Biological Systems Practice Questions Detailed Answer Explanations Each section of the test has a comprehensive review that goes into detail to cover all of the content likely to appear on the AP Biology Exam The practice test questions are each followed by detailed answer explanations If you miss a question it's important that you are able to understand the nature of your mistake and how to avoid making it again in the future The answer explanations will help you to learn from your mistakes and overcome them Understanding the latest test taking strategies is essential to preparing you for what you will expect on the exam A test taker has to not only understand the material that is being covered on the test but also must be familiar with the strategies that are necessary to properly utilize the time provided and get through the test without making any avoidable errors Anyone planning to take the AP Biology Exam should take advantage of the review material practice test questions and test taking strategies contained in this study guide

Mega Biology (016) Secrets Study Guide: Mega Test Review for the Missouri Educator Gateway Assessments Mega Exam Secrets Test Prep, 2018-04-12 Includes Practice Test Questions Get the test prep help you need to be successful on the MEGA Biology test The MEGA Biology 016 is extremely challenging and thorough test preparation is essential for success MEGA Biology 016 Secrets Study Guide is the ideal prep solution for anyone who wants to pass the MEGA Biology Exam Not only does it provide a comprehensive guide to the MEGA Biology Exam as a whole it also provides practice test questions as well as detailed explanations of each answer MEGA Biology 016 Secrets Study Guide includes A thorough overview of the MEGA Biology 016 A breakdown of science and engineering practices An examination of biochemistry and cell biology A guide to genetics and evolution An analysis of biological unity and diversity A full study of ecology and environment Comprehensive practice questions with detailed answer explanations It's filled with the critical information you'll need in order to do well on the test the concepts procedures principles and vocabulary that the Missouri Department of Elementary and Secondary Education and Pearson Education Inc expects you to have mastered before sitting for the exam The Science and Engineering Practices section covers Biology Germ theory of disease Classification of organisms Extraction of mineral and energy resources Genetic testing The Biochemistry and Cell Biology section covers Atomic structure of atoms Macromolecules Biochemical pathways Prokaryotes and eukaryotes Active and passive transport DNA and RNA The Genetics and Evolution section covers Independent assortment Chromosomal aberrations Genetic drift Endosymbiosis theory Speciation Extinction of a species Mutations and mutagens The Biological Unity and Diversity section covers Cells and structural organization Organs Endocrine system Meristematic tissue Roots

Human Biology The Ecology and Environment section covers Biosphere Biomes Carbon cycle Fragmentation Pollution These sections are full of specific and detailed information that will be key to passing the MEGA Biology Exam Concepts and principles aren't simply named or described in passing but are explained in detail The guide is laid out in a logical and organized fashion so that one section naturally flows from the one preceding it Because it's written with an eye for both technical accuracy and accessibility you will not have to worry about getting lost in dense academic language Any test prep guide is only as good as its practice questions and answers and that's another area where our guide stands out Our test designers have provided scores of test questions that will prepare you for what to expect on the actual MEGA Biology Exam Each answer is explained in depth in order to make the principles and reasoning behind it crystal clear We've helped thousands of people pass standardized tests and achieve their education and career goals We've done this by setting high standards for our test preparation guides and our MEGA Biology Exam Secrets Study Guide is no exception It's an excellent investment in your future

This book delves into Test Study Guide Biology. Test Study Guide Biology is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Test Study Guide Biology, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Test Study Guide Biology
- Chapter 2: Essential Elements of Test Study Guide Biology
- Chapter 3: Test Study Guide Biology in Everyday Life
- Chapter 4: Test Study Guide Biology in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Test Study Guide Biology. The first chapter will explore what Test Study Guide Biology is, why Test Study Guide Biology is vital, and how to effectively learn about Test Study Guide Biology.
3. In chapter 2, this book will delve into the foundational concepts of Test Study Guide Biology. The second chapter will elucidate the essential principles that must be understood to grasp Test Study Guide Biology in its entirety.
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5. In chapter 4, the author will scrutinize the relevance of Test Study Guide Biology in specific contexts. The fourth chapter will explore how Test Study Guide Biology is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Test Study Guide Biology. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Test Study Guide Biology.

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Table of Contents Test Study Guide Biology

1. Understanding the eBook Test Study Guide Biology

- The Rise of Digital Reading Test Study Guide Biology
- Advantages of eBooks Over Traditional Books
- 2. Identifying Test Study Guide Biology
 - 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 Test Study Guide Biology
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Test Study Guide Biology
 - Personalized Recommendations
 - Test Study Guide Biology User Reviews and Ratings
 - Test Study Guide Biology and Bestseller Lists
- 5. Accessing Test Study Guide Biology Free and Paid eBooks
 - Test Study Guide Biology Public Domain eBooks
 - Test Study Guide Biology eBook Subscription Services
 - Test Study Guide Biology Budget-Friendly Options
- 6. Navigating Test Study Guide Biology eBook Formats
 - ePub, PDF, MOBI, and More
 - Test Study Guide Biology Compatibility with Devices
 - Test Study Guide Biology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Test Study Guide Biology
 - Highlighting and Note-Taking Test Study Guide Biology
 - Interactive Elements Test Study Guide Biology
- 8. Staying Engaged with Test Study Guide Biology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Test Study Guide Biology

9. Balancing eBooks and Physical Books Test Study Guide Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Test Study Guide Biology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Test Study Guide Biology
 - Setting Reading Goals Test Study Guide Biology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Test Study Guide Biology
 - Fact-Checking eBook Content of Test Study Guide Biology
 - 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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