

Name: _____

Honors Biology Chapter 3 Test Preparation

Your Chapter 3 test (Biochemistry) will be on _____.

The test will consist of _____ multiple choice and _____ short answer.

This is NOT an assignment, however to be successful on the exam you must be able to answer each question!

1. What makes carbon 'special?' (how many valence electrons does it have, what kind of bonds can it form, what shapes can it make?) **Carbon has 4 valence electrons giving 4 places available for bonding. It can form strong but flexible covalent bonds that form straight chains, rings, branches chains, etc.**
2. What are the four *macromolecules* that make up life? **Carbs, lipids, protein, nucleic acids**
3. What is a hydrocarbon? **A molecule consisting of only hydrogen and carbon**
4. What is an isomer? **Molecules that have the same molecule formula, but different structural formulas.**
5. What is a functional group? **A group of atoms that gives molecules it is a part of its properties.**
6. What is a monomer? Polymer? **Monomer is a small subunit that through dehydration synthesis can form large polymers which are simply monomers linked together by covalent bonds.**
 - a. What type of reaction occurs when you put monomers together to form a polymer? **Dehydration synthesis**
 - b. What type is it when you take a polymer apart? **Hydrolysis**
7. Carbohydrate? **A group of molecules that provide energy and structure.**
 - a. What are the functional groups? **Hydroxyl (-OH), and Carbonyl (-COH)**
 - b. What do we call the monomers? **monosaccharides**
 - i. What are 2 examples of the monomers? **Glucose, fructose, and (galactose)**
 - ii. What are the isomers of glucose? **Fructose and galactose**
 - c. What do we call the polymers? **polysaccharides**
 - i. What are 3 examples of the polymers (& where are they found)? **Cellulose – give structure to plants, starch – energy storage for plant, glycogen – energy storage for animals.**
 - d. What is the function of carbohydrates? **Structure and energy**
 - e. What types of foods contain this macromolecule? **Breads, rice, pasta**
 - f. How do we test for carbohydrates in foods? (think of the nutrient lab) **Benedict's – monosaccharides (turns from blue to green/red), Lugol's Iodine solution – polysaccharides (turns bluish/black)**

g. What does glucose look like?



What does starch look like?



8. Lipids? **Fats and such!**
 - a. What are the functional groups? **Amino (NH₂) and Carboxyl (-COOH)**
 - b. What are 2 examples of the monomers? **Glycerol and fatty acids**
 - c. What are 4 examples of the polymers? **Triglyceride, wax, steroids, phospholipids**
 - d. What is the function of lipids? **Long term energy, make up cell membranes (both phospholipids and steroids – cholesterol), provide waterproof coatings for organisms that dry out like plants and insects**
Remember – too much cholesterol in the blood can lead to atherosclerosis (plaque build up in the arteries)
 - e. What types of foods contain this macromolecule? **Oils, butter, lard**

Honors Biology Chapters 1 And 2 Test

G Thomas



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Exploring Biology in the Laboratory: Core Concepts Murray P. Pendarvis, John L. Crawley, 2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today

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and about 4 000 get in At West Point alone over 15 000 candidates start the applications process Less than a third of them finish it Some figure out that they aren t going to be competitive some get derailed with specific problems and some get lost and drop out even though they might have gotten in From applications to Congressional nominations from athletics to medical qualifications the process is unlike any other for getting into college This book leads students and their families through the process step by step offering the tools needed for the very best chance of success Covering special issues and concerns like LGBTQ women and minorities criminal records and more the author also discusses whether attending a service academy is RIGHT for the prospective student and what he or she can expect upon acceptance admission and attendance Using his personal experience in helping his son through the applications process Michael Singer Dobson provides all candidates with the ins and outs of the competition for a spot at one of these prestigious schools **The Chautauquan**,1895 *Real World 101* Autumn McAlpin,2013-05-28 Congratulations graduate You did it You re finally out on your own But as you walk off the stage and into the Real World you re going to need more than a diploma to survive Suddenly for the first time you re facing questions like How do I get a job What do I do with all this laundry What s a major and how do I pick one How do I go grocery shopping And what s for dinner What s a budget anyway and do I need one How do I set up a bank account Where should I live Don t panic help is on the way Author Autumn McAlpin gives you the common sense advice and reassurance you ll need to tackle just about any challenge with style grace and enough humor to make the whole thing fun From cap and gown to total independence *Real World 101* is the only graduate guide you ll ever need Autumn McAlpin is a humor and entertainment columnist for the Orange County Register A former high school teacher she knows how unprepared some high school graduates are for the real world and has taken matters into her own hands With her sharp wit and hilarious anecdotes she is a favorite speaker for youth audiences *adMISSION POSSIBLE* Marjorie Hansen Shaevitz,2012-04 Admission Possible doesn t just describe college admissions it shows exactly what to say and do every step along the way from freshman through senior year of high school using fully illustrated examples and checklists **The Complete Book of Colleges, 2018 Edition** Princeton Review,2017-07 Includes information on admissions cost financial aid required and recommended admissions criteria cost breakdowns and types of financial aid for 1 355 colleges and universities Research in Education ,1972 Resources in Education ,2001-10 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1965 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December The Best 387 Colleges, 2022 The Princeton Review,Robert Franek,2021-08-31 Make sure you re preparing with the most up to date materials Look for The Princeton Review s newest edition of this book *The Best 388 Colleges 2023 Edition* ISBN 9780593450963 on sale August 2022 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product **The Complete Book of Colleges, 2020 Edition** Princeton Review,2019-07-02 No one knows

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Ravid,2024-07-23 Practical Statistics for Educators Seventh Edition is a clear and easy to follow book written specifically for education students in introductory statistics and action research courses It is also an invaluable resource and guidebook for educational practitioners who wish to study their own settings and for those involved in program evaluation The book s focus is on essential concepts in educational statistics understanding when to use various statistical tests and learning how to interpret results This book introduces education students and practitioners to the use of parametric and nonparametric statistics in education and basic concepts in statistics are explained in clear language Formulas and equations are used sparingly and readers are not required to do any computations The book also includes a discussion of testing test score interpretation reliability and validity A chapter on survey design and analysis provides readers with examples that demonstrate how the different statistical tests introduced in the book can be used to analyze survey data An extensive study guide at the end of the book provides an opportunity to review all the information that was presented in the book the guide includes an answer key with a clear explanation of each correct answer Throughout this text examples taken from the field of education serve to illustrate the various concepts terms statistical tests and data interpretations *The Reflective*

Educator's Guide to Classroom Research Nancy Fichtman Dana,Diane Yendol-Hoppey,2019-07-31 Harness the power of data to transform classrooms through inquiry and analysis with this updated best selling resource When teachers examine the simple but complex act of teaching the power yielded can be transformative For three editions teacher preparation and professional development providers have turned to this bestselling how to guide for an authentic clear description of teacher inquiry and how to harness it for greatest effect In this 4th edition readers will journey toward understanding the link between teacher inquiry and the creation of data driven classrooms by walking through some of today s most relevant scenarios as well as timeless and enduring examples Featuring helpful exercises and step by step instructions this edition includes A head on discussion of equity and social justice and the role inquiry plays in tackling it A look at professional practice doctoral programs as ripe context for inquiry A complete chapter on the role literature plays in teacher research A more seamless integration between the text and accompanying website Grab this text raise your voice at the table of educational reform and transform assumptions for more impactful teaching Author - Title Catalog University of California, Berkeley. Library,1963 **The Condition of Education** ,2002 Includes a section called Program and plans

which describes the Center s activities for the current fiscal year and the projected activities for the succeeding fiscal year

Basic Principles in Nucleic Acid Chemistry V1 Paul O.P. Ts'o,2012-12-02 Basic Principles in Nucleic Acid Chemistry Volume I provides information pertinent to the fundamental aspects of nucleic acids This book discusses the development of the basic principles in nucleic acid research that will serve as a foundation for further advancement in nucleic acid research

Organized into six chapters this volume begins with an overview of the history of the scientific study of nucleic acid as a genetic material This text then examines the utility of the analogs of the naturally occurring nucleic acid components as biochemical tools and as therapeutic agents Other chapters consider mass spectrometry that deals with the production and chemistry of ions in the vapor phase This book discusses as well the various aspects of the excited states of the nucleic acids The final chapter deals with the systematic study of the physiochemical properties of the monomeric units of nucleic acid This book is a valuable resource for molecular biologists scientists and research workers

Basic Principles in Nucleic Acid Chemistry V2 Paul O.P. Ts'o, 2012-12-02 Basic Principles in Nuclear Acid Chemistry Volume II presents the significant progress in nucleic acid research and its contribution and influence on various aspects of human life This book contains five chapters and begins with the susceptibility of nucleic acids towards attack by chemical reagents whose reactions with polynucleotides have been studied This topic is followed by a presentation of experimental techniques used to study the properties of nucleic acids The following chapter discusses some basic features embodied in the polyribo and poly deoxyribonucleotide backbone chains the possibility of rotation around backbone bonds in the random single stranded form and the short and long range interactions in idealized and real chains This chapter also looks into the thermodynamic and polyelectrolyte aspects of nucleic acid behavior A chapter describes the special features of the third class of DNA namely closed duplex DNA in which covalent chain scissions are absent The last chapter examines the intrinsic properties and the interaction of the dimers and oligomers with special emphasis on the influence of the phosphodiester linkages on the conformation and interaction of these short segments of nucleic acids This book is of great value to workers in biomedical research and to higher level biochemistry instructors

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