

BIOLOGY – 2ND SEMESTER FINAL EXAM STUDY GUIDE – 2011

Chapter 12

1. What do all organisms have in common?
2. Identify a diagram of DNA, label the nitrogen bases, deoxyribose sugar, phosphate group, and nucleotides.
3. What is a DNA nucleotide made of? What is an RNA nucleotide made of?
4. Where is the DNA in a eukaryotic cell? In a prokaryotic cell?
5. What has to happen to DNA in order to start mitosis?
6. What is replication? Describe the steps of the process.
7. Using a DNA strand, make the complementary strand.
8. How is RNA different from DNA? How is it similar?
9. List the 3 types of RNA involved in protein synthesis.
10. Describe transcription. Describe translation.
11. What is a codon? How can an amino acid be coded for by more than 1 codon?
12. What are genes?
13. What's a point mutation? What's a frameshift mutation?
14. How is gene expression regulated in eukaryotes?

Chapter 13

1. What is selective breeding? Give examples.
2. What is inbreeding? What are some of its ill effects?
3. What's hybridization? Give an example. What does a hybrid have/not have?
4. What causes genetic variation?
5. Draw a double-stranded DNA molecule & show how a restriction enzyme will cut it. What are the sticky ends? Between what bases does the restriction enzyme cut?
6. What's the function of gel electrophoresis?
7. What is recombinant DNA? What are the steps involved in making it?
8. What does genetic engineering involve?
9. How do you make transgenic bacteria? Explain the steps. How is this process useful?

Chapter 14

1. List everything you can tell from a karyotype.
2. How are chromosomes in a male different from female?
3. What chromosomes do sperm contain? What do eggs contain?
4. Describe the symbols in a pedigree. What does a pedigree show?
5. Describe the genotypes & phenotypes for blood typing.
6. What are linked genes?
7. Where are sex-linked traits found? Give examples. Why are they more common in males?
8. What nondisjunction? What does it lead to?
9. Why is DNA fingerprinting a good identifier of people?
10. What's the purpose of gene therapy?

Chapter 15

1. What are some observations Darwin made on the Galapagos Islands?
2. What was Lamarck's explanation for evolution?
3. What was Darwin's conclusion based on the similarities among the finches?
4. Explain Darwin's theory of evolution by natural selection. What is it also known as?
5. What are adaptations? Give examples.
6. What are vestigial structures? What do they indicate? Give examples.
7. What's a species?

2nd Semester Biology Semester Test Study Guide

Lei Shi



2nd Semester Biology Semester Test Study Guide:

Concepts of Medicine & Biology Parent Lesson Plan, 2013-08-01 *Concepts of Medicine and Biology Course Description*

This is the suggested course sequence that allows one core area of science to be studied per semester. You can change the sequence of the semesters per the needs or interests of your student. Materials for each semester are independent of one another to allow flexibility.

Semester 1: Medicine From surgery to vaccines, man has made great strides in the field of medicine. Quality of life has improved dramatically in the last few decades alone, and the future is bright. But students must not forget that God provided humans with minds and resources to bring about these advances. A biblical perspective of healing and the use of medicine provides the best foundation for treating diseases and injury.

In *Exploring the History of Medicine*, author John Hudson Tiner reveals the spectacular discoveries that started with men and women who used their abilities to better mankind and give glory to God. The fascinating history of medicine comes alive in this book, providing students with a healthy dose of facts, mini biographies, and vintage illustrations.

Semester 2: Biology The field of biology focuses on living things, from the smallest microscopic protozoa to the largest mammal. In this book, you will read and explore the life of plants, insects, spiders, and other arachnids; life in water; reptiles, birds, and mammals, highlighting God's amazing creation. You will learn about biological classification, how seeds spread around the world, long-term storage of energy, how biologists learned how the stomach digested food, the plant that gave George de Mestral the idea of Velcro, and so much more. For most of history, biologists used the visible appearance of plants or animals to classify them. They grouped plants or animals with similar looking features into families. Starting in the 1990s, biologists have extracted DNA and RNA from cells as a guide to how plants or animals should be grouped. Like visual structures, these reveal the underlying design of creation.

Exploring the World of Biology is a fascinating look at life from the smallest proteins and spores to the complex life systems of humans and animals.

Telecourse Study Guide for Sociology Pearson, James M. Henslin, Shelly Dutchin, 2005-04. This student manual is for students who are using *Sociology: A Down to Earth Approach* with the twenty-two video programs in the *Exploring Society* series from Dallas TeleLearning. Each section coordinates reading and video assignments and includes summaries, learning objectives, video outlines, key terms, and people and student application projects. The Guide also provides a self-test section containing multiple choice, true/false, fill-in, matching, and essay questions that correlate to the video programs, as well as Henslin's text.

Technical Report NAVTRADEVCE 269-7, 1949

Eighteenth Annual Report of the Board of Education of School District No. One, Arapahoe County, Colorado, August 1, 1892. Revised Courses of Study and General Regulations of Denver High School, District No. 2, Denver, Colorado, 1894/1895. Manual Training High School, Denver : Courses of Study, Requirements of Admission, General and Special Information, 1896. Denver High School, District Number One : Courses of Study, Requirements for Admission, General and Special Information, Members of the Alumni, 1898. North Side Public Schools, District No. Seventeen, Denver,

Colorado : Twenty-fourth Annual Report of the Board of Directors for the School Year Ending June 30, 1900. Denver Manual Training High School, School District No. One, Arapahoe County, Colorado : Courses of Study, Requirements for Admission, General and Special Information, 1902. Salary Schedules Adopted by the Board of Education, November 10, 1920, and February 9, 1921 (Denver Public School Monographs ; No. 5). The Denver Program of Curriculum Revision, 1927 ,1892 Tests in Print II Oscar Krisen Buros,1974 General Requirements for Admission to the Examination for Registration to Practice in Patent Cases Before the U.S. Patent and Trademark Office United States. Patent and Trademark Office,1998 Biology Edward C. Gruber,1963 The Macmillan Guide to Correspondence Study Modoc Press,1996 Basic Pre-Med Parent Lesson Plan ,2013-08-01

Basic Pre Med Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Microbiology As the world waits in fear world health organizations race to develop a vaccine for the looming bird flu epidemic a threat that has forced international federal and local governments to begin planning for a possible pandemic and the widespread death and devastation which would follow Will the world find an answer in time Or will we see this threat ravage populations as others have before in 1918 with influenza in the late 18th century with yellow fever or the horrific black death or bubonic plague in 1347 AD Are these viruses examples of evolution Did God make microbes by mistake Are they accidents of evolution out of the primordial soup These timely questions are examined throughout The Genesis of Germs It seems that a new and more terrible disease is touted on the news almost daily The spread of these scary diseases from bird flu to SARS to AIDS is a cause for concern and leads to questions such as Where did all these germs come from and how do they fit into a biblical world view What kind of function did these microbes have before the Fall Does antibiotic resistance in bacteria prove evolution How can something so small have such a huge deadly impact on the world around us Professor Alan Gillen sheds light on these and many other questions in this revealing and detailed book He shows how these constantly mutating diseases are proof for devolution rather than evolution and how all of these germs fit into a biblical world view Dr Gillen shows how germs are symptomatic of the literal Fall and Curse of creation as a result of man s sin and the hope we have in the coming of Jesus Christ Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the magnificent origins of life Within Building Blocks in Life Science you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the

origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process **The American Biology Teacher** ,1999 Resources in Education ,1988 The National Guide to Educational Credit for Training Programs American Council on Education,2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies Intro to Speleology & Paleontology Parent Lesson Plan ,2013-08-01 Introduction to Speleology and Paleontology Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility

Semester 1 Speleology Explore deep into the hidden wonders beneath the surface as cave expert Dr Emil Silvestru takes you on an illuminating and educational journey through the mysterious world of caves Discover the beautiful thriving ecology unique animals and fragile balance of this little seen ecosystem in caves from around the globe The Cave Book will teach you about a creationary model for how caves form a history of how caves have been used by humans for shelter and worship how old caves really are the surprising world of Neanderthals and their connection to modern humans how to make a stone axe and about early tools just how long it really takes for cave formations to form unusual animals that make caves their home examples of how connected caves are to mythology of many cultures the climate and geologic processes and features of caves and karst rocks the process by which ice caves form exploration hazards and record setting caves how caves form and features above and below the surface Filled with beautiful and fascinating color photos of caves from around the world The Cave Book is a wonderful guide to this hidden world of wonderful Enjoy learning on your journey of exploration into these exciting and mysterious places underground Semester 2 Paleontology Fossils have fascinated humans for centuries From the smallest diatoms to the largest dinosaurs finding a fossil is an exciting and rewarding experience But where did they come from and how long have they been around These and many other questions are answered in this remarkable book The Fossil Book will teach you about the origin of fossils how to start your own fossil collection what kinds of fossils can be commonly found the age of fossils how scientists find and preserve fossils how to identify kinds of fossils how the Flood affected fossil formation the Geologic Column Diagram the difference between evolutionists and creationists views on fossils the four Cs of biblical creation the different kinds of rocks fossils are found in coal and oil formation Learning about fossils their origins and how to collect them can be both fun and educational The abundance of both marine and land fossils and the locations they are found in is a fascinating subject for students of all ages and has been studied by scientists and layperson alike for many years *Peterson's Annual Guides to Graduate Study* ,1983 *There are No Boundaries to Independent Study* Colorado Consortium for Independent Study via Correspondence,1987 **Tests in Print** ,1974 **Abstracts of Theses, Researches in Progress, and Bibliography of Publications** ,1933 *Peterson's Guide to Graduate Programs in the*

Physical Sciences and Mathematics ,1991 *Universities Handbook* ,2006 **Catalogs of Courses** University of California, Berkeley,1990 Includes general and summer catalogs issued between 1878 1879 and 1995 1997

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Table of Contents 2nd Semester Biology Semester Test Study Guide

1. Understanding the eBook 2nd Semester Biology Semester Test Study Guide
 - The Rise of Digital Reading 2nd Semester Biology Semester Test Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester Biology Semester Test Study Guide
 - 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 2nd Semester Biology Semester Test Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester Biology Semester Test Study Guide

- Personalized Recommendations
- 2nd Semester Biology Semester Test Study Guide User Reviews and Ratings
- 2nd Semester Biology Semester Test Study Guide and Bestseller Lists
- 5. Accessing 2nd Semester Biology Semester Test Study Guide Free and Paid eBooks
 - 2nd Semester Biology Semester Test Study Guide Public Domain eBooks
 - 2nd Semester Biology Semester Test Study Guide eBook Subscription Services
 - 2nd Semester Biology Semester Test Study Guide Budget-Friendly Options
- 6. Navigating 2nd Semester Biology Semester Test Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - 2nd Semester Biology Semester Test Study Guide Compatibility with Devices
 - 2nd Semester Biology Semester Test Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2nd Semester Biology Semester Test Study Guide
 - Highlighting and Note-Taking 2nd Semester Biology Semester Test Study Guide
 - Interactive Elements 2nd Semester Biology Semester Test Study Guide
- 8. Staying Engaged with 2nd Semester Biology Semester Test Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2nd Semester Biology Semester Test Study Guide
- 9. Balancing eBooks and Physical Books 2nd Semester Biology Semester Test Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2nd Semester Biology Semester Test Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 2nd Semester Biology Semester Test Study Guide
 - Setting Reading Goals 2nd Semester Biology Semester Test Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2nd Semester Biology Semester Test Study Guide

- Fact-Checking eBook Content of 2nd Semester Biology Semester Test Study Guide
 - 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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