

Biology Semester 2 Final Exam Study Guide

Evolution

1. How old is the earth estimated to be? What are some examples of fossils and how can their age be determined?
2. What gases are thought to be a part of earth's early atmosphere?
3. Describe Miller and Urey's experiment and know what they produced with it.
4. What are homologous, analogous, and vestigial structures? What are a few examples of these three types of structures?
5. What are gradualism and punctuated equilibrium?
6. Who thought up evolution through natural science?
7. What evidence do we have that evolution occurs? Give 3 answers.
8. How do genetic drift, sexual selection, directional selection, and stabilizing selection work with regards to evolution?

Classification

1. Define taxonomy.
2. Who invented the binomial naming system used today and what language did use to name organisms with?
3. What are the 7 levels of classification from biggest to smallest? (Kingdom, phylum, class, etc...)
4. Which is the genus and which is the species? *Homo sapiens*.
5. **If given pictures of organisms or characteristics of organisms, be able to place them in the correct kingdom. Example: (A mushroom belongs in which kingdom?)**

Ecology

1. How do food chains and food webs work? What do they represent?
2. What are producers, consumers, and decomposers? Where are they represented in a food chain or food pyramid?
3. What are the 6 terrestrial biomes? Be able to identify a biome from a picture.
4. What are the 3 biogeochemical cycles? Be familiar with the gases and processes of each cycle (what happens to oxygen in the carbon/oxygen cycle?).
5. What are producers, consumers, and decomposers?
6. What are food chains and food webs?
7. If given a picture of either one, be able to identify the producers and consumers.
8. What is an energy pyramid? What does each trophic level represent?
9. What is primary succession and secondary succession?
10. What is the green-house effect and what causes it?
11. What are ecosystems, communities, and populations from an ecological view?
12. What is a niche and what happens if two niches overlap each other?
13. What are 3 types of dispersion? Give an example of each.
14. What is exponential growth and how does "carrying capacity" limit it?
15. What are some density dependent and independent factors that limit population growth?
16. Define parasitism, mutualism, competition, commensalism, predation and mimicry. Give 1 example of each.

Honor Biology Study Guide Semester 2 Final

SJ Ball



Honor Biology Study Guide Semester 2 Final:

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 1990 s 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 *ERIC Educational Documents Index, 1966-69: Major descriptors* ,1970 Research in Education ,1969-05 *Resources in Education* ,1997 The Complete Book of Colleges, 2020 Edition Princeton Review,2019-07-02 No one knows colleges better than The Princeton Review Inside The Complete Book of Colleges 2020 Edition students will find meticulously researched information that will help them narrow their college search *American Universities and Colleges* ,2014-10-08 No detailed description available for American Universities and Colleges **The Complete Book of Colleges 2021** The Princeton Review,2020-07 The mega guide to 1 349 colleges and universities by the staff of the Princeton Review including detailed information on admissions financial aid cost and more Cover *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 American Universities and Colleges James J. Murray,2021-06-21 No detailed description available for American Universities and Colleges REA's Authoritative Guide to Medical & Dental Schools Research and Education

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