

Biology Exam 1 Study Guide

Lecture 1 → Introduction to Biological Science

Tree of Life

- Domains
 - Eukarya → visible life
 - Split into animals and plants
 - Very small portion
 - Bacteria → single cell
 - Make up most of life's branches
 - Symbionts that evolved into mitochondria and chloroplasts were eubacteria
 - Archaea → original domain of life
 - More closely related to eukaryotes than eubacteria, first branch of life
 - Basic split between archaea and bacteria
- Candidate phyla radiation: Single species have been identified, each identifies an entire phylum which is yet to be understood - pioneer species (tree is dominated by new species that scientists have never seen before)
- Species disappearing faster than can be recovered
- Eukaryotes and archaea are most closely related branches

Destruction and Mass Extinction

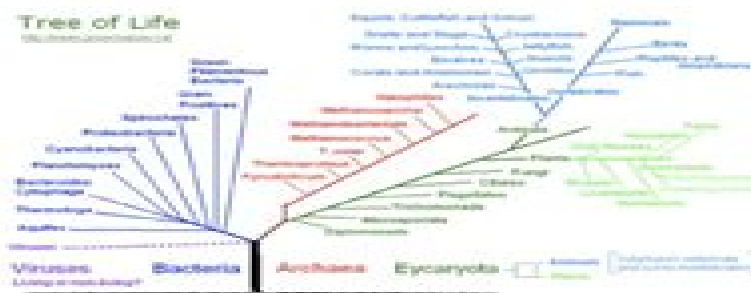
- One million species face imminent extinction because of humans
- Recent past → >50% vertebrates/>75% flying insects lost in the past <50 years
- Critically threatened → >40% amphibians, >30% plants/corals/sharks, >25% mammals
- Populations and extinctions have increased

Theory of Evolution

- Evolution: all life on earth evolved from a common ancestor, most properties within cells work in the same way, the change in gene distribution over time within a population
- Theory: a very well substantiated idea that explains many overlapping phenomena at once, wide-ranging, strongest. Not a hypothesis
- Darwin: species arise through random mutation and natural selection for fitness
- Evidence (fewer than 40% of Americans believe in evolution)
 - fossil record shows conservation of homologous structures
 - Molecular proof: same DNA and RNA protein in cells
 - Homologous function in hands and fins → evolved similar mechanisms in appendages
- Scopes Monkey Trial
 - Scopes taught evolution illegally; resulted in Butler Act → forbid teaching evolution in TN
- Endosymbiont theory
 - Single composite cell of greater complexity could evolve from two or more separate simpler living cells in a symbiotic relationship

Year of Earth's History

- 1 Jan: earth formed 4.54 bya by acceleration of material from the solar nebula via gravitational collapse, conditions were incompatible with life, bombarded with asteroid-sized meteors for 800 million years
- 4 Mar: by 3.8 bya bombardment had slowed, Earth had cooled to lower the temps "compatible" with life



Answers Study Guide Introduction To Biology

Beck



Answers Study Guide Introduction To Biology:

Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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The Development and Evaluation of an Introductory Biology Study Guide at the College Level Carol Hardy McFadden, 1981

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Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

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Life David E. Sadava, 2008 This text aims to establish biology as a discipline not just a collection of facts Life develops students understanding of biological processes with scholarship a smooth narrative experimental contexts art and effective pedagogy

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Study Guide and Solutions Manual Bruce A. Chase, Peter J. Russell, 2005-06 This student resource contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities

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Table of Contents Answers Study Guide Introduction To Biology

1. Understanding the eBook Answers Study Guide Introduction To Biology
 - The Rise of Digital Reading Answers Study Guide Introduction To Biology
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Study Guide Introduction To 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 Answers Study Guide Introduction To Biology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Study Guide Introduction To Biology
 - Personalized Recommendations
 - Answers Study Guide Introduction To Biology User Reviews and Ratings
 - Answers Study Guide Introduction To Biology and Bestseller Lists
5. Accessing Answers Study Guide Introduction To Biology Free and Paid eBooks
 - Answers Study Guide Introduction To Biology Public Domain eBooks
 - Answers Study Guide Introduction To Biology eBook Subscription Services
 - Answers Study Guide Introduction To Biology Budget-Friendly Options
6. Navigating Answers Study Guide Introduction To Biology eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers Study Guide Introduction To Biology Compatibility with Devices
 - Answers Study Guide Introduction To Biology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers Study Guide Introduction To Biology
 - Highlighting and Note-Taking Answers Study Guide Introduction To Biology
 - Interactive Elements Answers Study Guide Introduction To Biology

8. Staying Engaged with Answers Study Guide Introduction To Biology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers Study Guide Introduction To Biology
9. Balancing eBooks and Physical Books Answers Study Guide Introduction To Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers Study Guide Introduction To Biology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers Study Guide Introduction To Biology
 - Setting Reading Goals Answers Study Guide Introduction To Biology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers Study Guide Introduction To Biology
 - Fact-Checking eBook Content of Answers Study Guide Introduction To 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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