

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

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Table of Contents Answeres To Biology Study Guide

1. Understanding the eBook Answeres To Biology Study Guide
 - The Rise of Digital Reading Answeres To Biology Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Answeres To Biology 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 Answeres To Biology Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answeres To Biology Study Guide
 - Personalized Recommendations
 - Answeres To Biology Study Guide User Reviews and Ratings
 - Answeres To Biology Study Guide and Bestseller Lists
5. Accessing Answeres To Biology Study Guide Free and Paid eBooks
 - Answeres To Biology Study Guide Public Domain eBooks
 - Answeres To Biology Study Guide eBook Subscription Services
 - Answeres To Biology Study Guide Budget-Friendly Options

6. Navigating Answers To Biology Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers To Biology Study Guide Compatibility with Devices
 - Answers To Biology Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers To Biology Study Guide
 - Highlighting and Note-Taking Answers To Biology Study Guide
 - Interactive Elements Answers To Biology Study Guide
8. Staying Engaged with Answers To Biology Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers To Biology Study Guide
9. Balancing eBooks and Physical Books Answers To Biology Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers To Biology Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers To Biology Study Guide
 - Setting Reading Goals Answers To Biology Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers To Biology Study Guide
 - Fact-Checking eBook Content of Answers To Biology 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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