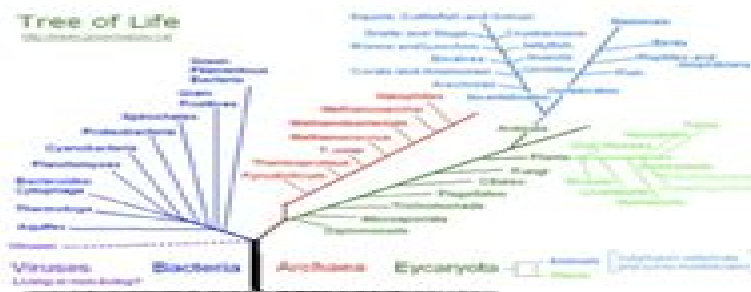


Biology Exam 1 Study Guide

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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Raymond J.C. Cannon



Answer To Biology Study Guide 2012 Florida:

Answer To Biology Study Guide 2012 Florida Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Answer To Biology Study Guide 2012 Florida**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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Table of Contents Answer To Biology Study Guide 2012 Florida

1. Understanding the eBook Answer To Biology Study Guide 2012 Florida
 - The Rise of Digital Reading Answer To Biology Study Guide 2012 Florida
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer To Biology Study Guide 2012 Florida
 - 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 Answer To Biology Study Guide 2012 Florida
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer To Biology Study Guide 2012 Florida
 - Personalized Recommendations
 - Answer To Biology Study Guide 2012 Florida User Reviews and Ratings
 - Answer To Biology Study Guide 2012 Florida and Bestseller Lists

5. Accessing Answer To Biology Study Guide 2012 Florida Free and Paid eBooks
 - Answer To Biology Study Guide 2012 Florida Public Domain eBooks
 - Answer To Biology Study Guide 2012 Florida eBook Subscription Services
 - Answer To Biology Study Guide 2012 Florida Budget-Friendly Options
6. Navigating Answer To Biology Study Guide 2012 Florida eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer To Biology Study Guide 2012 Florida Compatibility with Devices
 - Answer To Biology Study Guide 2012 Florida Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer To Biology Study Guide 2012 Florida
 - Highlighting and Note-Taking Answer To Biology Study Guide 2012 Florida
 - Interactive Elements Answer To Biology Study Guide 2012 Florida
8. Staying Engaged with Answer To Biology Study Guide 2012 Florida
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer To Biology Study Guide 2012 Florida
9. Balancing eBooks and Physical Books Answer To Biology Study Guide 2012 Florida
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer To Biology Study Guide 2012 Florida
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer To Biology Study Guide 2012 Florida
 - Setting Reading Goals Answer To Biology Study Guide 2012 Florida
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer To Biology Study Guide 2012 Florida
 - Fact-Checking eBook Content of Answer To Biology Study Guide 2012 Florida
 - 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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