

## 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 position
  - 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

# Essential Biology Study Guide

**J Elliott**



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## **Table of Contents Essential Biology Study Guide**

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

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