

UNIT 9 Study Guide Answer Key

Answer Key

SECTION 17.1. THE LINNAEAN SYSTEM OF CLASSIFICATION

1. organisms or species
2. physical similarities
3. taxa
4. organisms or species
5. binomial nomenclature
6. a scientific name or two-part Latin name
7. In a hierarchy, each level is nested, or included, in the level above it.
8. From kingdom to species, the taxa become more and more specific; broad to specific.
Seven taxa: a. kingdom; b. phylum; c. class; d. order; e. family; f. genus; g. species

SECTION 17.2. CLASSIFICATION BASED ON EVOLUTIONARY RELATIONSHIPS

1. the evolutionary history for a group of species
2. in a branching-tree diagram, such as a cladogram
3. to place species on a branching-tree diagram in the order in which they descended from a common ancestor
4. taxon being classified
5. clade
6. node
7. derived characters
8. a group of organisms that shares a common ancestor
9. Scientists must determine which derived characters are shared by which groups of organisms; the more derived characters a group of organisms has, the later it descended from the common ancestor.
10. A node is a place where a branch splits. It represents the most common ancestor shared by a clade. 11. DNA sequences/genes, amino acid sequences/proteins, hormones, etc.
12. As more research is done and the evolutionary histories of different species become better understood, evolutionary trees are rearranged to reflect the most current scientific understanding.
13. The species are very closely related; they share a relatively recent common ancestor.
14. A phylogeny shows the origins for a group, or "class," of species.
15. Cladistics is classification based on evolutionary relationships and a cladogram shows these relationships in a branching-tree diagram.
16. derived
9. The technology at the time did not allow Linnaeus to examine organisms at the molecular or genetic level.
10. Unrelated species can evolve similar traits through convergent evolution.
11. These types of similarities are more likely the result of species sharing a common ancestor than are physical similarities.
12. naming, classifying
13. Latin
14. genus, species

SECTION 17.4. DOMAINS AND KINGDOMS

1. Since it reflects the most current understanding of how living things are related, new discoveries can change the way living things are classified.
2. Three hundred years ago, only two kingdoms were recognized. Now, a six-kingdom system is most widely accepted.
3. His research revealed two genetically different groups of prokaryotes, which justified splitting kingdom Monera into two kingdoms. The genetic and cellular differences were so great, that these two kingdoms were eventually placed into different

Molecular Clocks Study Guide Answer Key

CL Gary



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Table of Contents Molecular Clocks Study Guide Answer Key

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

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