

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

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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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Genetics Robert J. Brooker, Robert, 2004-06 Contains solutions to the end of chapter problems and questions to aid the students in

developing their problem solving skills with the steps for each solution This guide follows the order of sections and subsections in the textbook and summarizes the main points in the text figures and tables It also contains concept building exercises

Functional and Neural Mechanisms of Interval Timing Warren H. Meck,2003-03-24 Understanding temporal integration by the brain is expected to be among the premier topics to unite systems cellular computational and cognitive neuroscience over the next decade The phenomenon has been studied in humans and animals yet until now there has been no publication to successfully bring together the latest information gathered from

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Epidemics and the Modern World Mitchell L. Hammond,2020-01-16 Epidemics and the Modern World uses biographies of epidemics such as plague tuberculosis and HIV AIDS to explore the impact of diseases on society from the fourteenth century to the twenty first century

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Biology Joseph S. Levine,Kenneth R. Miller,1998

Plant Molecular Evolution J.J. Doyle,Brandon S. Gaut,2012-12-06 Plant molecular biology has produced an ever increasing flood of data about genes and genomes Evolutionary biology and systematics provides the context for synthesizing this information This book brings together contributions from evolutionary biologists systematists developmental geneticists biochemists and others working on diverse aspects of plant biology whose work touches to varying degrees on plant molecular evolution The book is organized in three parts the first of which introduces broad topics in evolutionary biology and summarizes advances in plant molecular phylogenetics with emphasis on model plant systems The second segment presents a series of case studies of gene family evolution while the third gives overviews of the evolution of important plant processes such as disease resistance nodulation hybridization transposable elements and genome evolution and polyploidy

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