

UNIT 9 Study Guide Answer Key

Answer Key

SECTION 17.1: THE LINNAEAN SYSTEM OF CLASSIFICATION

1. organisms or species
2. physical characteristics
3. name
4. organisms or species
5. hierarchical system
6. a scientific name or two-part Latin name
7. two hierarchical levels (order is not included in the level above it)
8. three-kingdom system (the two kingdoms and order specifying domain-specific)
Domain: Bacteria is kingdom; E (Eukarya) is phylum; C (Chordata) is order; A (Amniota) is family; F (Fungi) is genus; G (Gymnosperms) is species

SECTION 17.2: CLASSIFICATION BASED ON EVOLUTIONARY RELATIONSHIPS

1. the evolutionary history for a group of species
 2. as 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. species being classified
 5. clade
 6. node
 7. derived character
 8. a group of organisms that share a common ancestor
 9. Molecular systematics include 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. DPA: organisms/groups, nodes and relationships/branches, characters, 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 phylogenetic tree is a diagram that shows the relationships between groups of organisms.
 15. Cladistics is classification based on evolutionary relationships and a cladogram shows these relationships in a branching-tree diagram.
 16. Derived
 17. The morphology or the other distinct characteristics (traits) of organisms are compared at the molecular or genetic level.
 18. Classified species can evolve similar traits through convergent evolution.
 19. These types of similarities are more likely the result of species sharing a common ancestor than are physical similarities.
 20. naming, classifying
 21. Name
 22. 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. There is no kingdom system in which only two kingdoms are recognized.
3. The research revealed how genetically different groups of prokaryotes, which just had splitting kingdom. The new kingdom is Bacteria. The genetic and cellular differences were so great, that those from Kingdoms were genetically almost entirely different.

Answer To Unit 9 Biotechnology Study Guide

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