

Study Guide

Answer Key

SECTION 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
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 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 "clade," of species.
15. Cladistics is classification based on evolutionary relationships and a cladogram shows these relationships in a branching-tree diagram.
16. derived

SECTION 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 domains in the current three-domain system.

Timeline:

1753: Linnaeus introduced his two-kingdom system which included Plantae and Animalia; 1866: Kingdom Protista introduced by Haeckel; 1938: Kingdom Monera introduced by Copeland; 1959:

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Richard Bailey



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an enzyme produced by some microorganisms. Tannase is useful in many industrial applications including food production.

The ... H420/03 Unified biology Sample Question Paper 2 This question is about the impact of potentially harmful chemicals and microorganisms. (a) (i). Salts that a plant needs, such as nitrates and phosphates, are ... Summary Notes - Topic 6.3 OCR (A) Biology A-Level The process occurs as following: • Nitrogen is first fixed by bacteria such as Rhizobium which live in the root nodules of leguminous plants such as pea plants. A level biology- enzymes A level biology- enzymes ... Explain how the following food preservation works: 1) Placing peas in boiling water for 1 minute then freezing them at -18 degrees. 2 ... ocr-a-level-biology-a-sb2-answers.pdf (e) Illuminated chloroplast produces oxygen; in light-dependent stage of photosynthesis; from photolysis of water; bacteria cluster where there is most oxygen; ... ocr a level biology nitrogen cycle Flashcards rhizobium as a nitrogen fixing bacteria. found in root nodules of leguminous plants such as peas and beans. nitrification definition. the process of converting ... The Nitrogen Cycle A2 OCR Biology Asking questions is a ... The Nitrogen Cycle A2 OCR Biology Asking questions is a sign of INTELLIGENCE ... bacteria) nitrogen fixing plant eg pea, clover bacteria. Nitrogen in the air ...

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