

The Tree of Life

Study Guide A

Answer Key

SECTION 1. THE LINNAEAN SYSTEM OF CLASSIFICATION

1. organisms
2. similarities
3. taxons
4. two
5. nomenclature
6. name
7. a
8. b
- taxa diagram:
 - a. [already filled in]
 - b. phylum
 - c. class
 - d. order
 - e. family
 - f. genus
 - g. [already filled in]
9. true
10. false
11. true
12. a
13. c
14. d
15. b

SECTION 2. CLASSIFICATION BASED ON EVOLUTIONARY RELATIONSHIPS

1. d
2. a
3. b
4. [already filled in]
5. clade
6. node
7. derived character
8. c
9. b
10. b
11. false
12. false
13. true
14. true

15. evolutionary history
16. clade
17. derived
18. Sketches may vary but should include: clade, node, derived character.

SECTION 3. MOLECULAR CLOCKS

1. c
2. c
3. a
4. DNA sequences may vary, but should show one sequence in the first panel, two sequences with one mutation each in the second panel, and two sequences with one more mutation each in the third panel.
5. row 1: mitochondria, mother,
row 2: Low rate relative to most DNA, species
6. mitochondrial DNA
7. molecular clock
8. ribosomal RNA

SECTION 4. DOMAINS AND KINGDOMS

1. c
2. d
3. a

timeline:

- 1753: Animalia, Plantae
 1866: Animalia, Plantae, Protista
 1938: Animalia, Plantae, Protista, Monera
 1959: Animalia, Plantae, Protista, Fungi, Monera
 1977: Animalia, Plantae, Protista, Fungi, Bacteria, Archaea
4. largest, Bacteria
 5. organisms, extreme, Archaea
 6. nucleus, membrane, multicellular, eukaryotic, Protista, Fungi
 7. true
 8. Eukarya
 9. Archaea
 10. Bacteria

Biology Guide 50 Answer Key

Michael Seilmaier



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