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Assessment

# **Chapter Test C**

## Classification

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- 1. Which of these terms describes the relative number of all species on Earth that have been given scientific names?
  - a. all
  - b. fraction
  - c. most
  - d. none
- 2. Until the mid-1700s, organisms were rarely known to everyone by the same name because
  - a. species varied from place to place.
  - b. polynomials were often changed by biologists.
  - c. not very many people spoke or read Latin.
  - d. all species were not named yet.
  - 3. An organism once named Apis pubescens, thorace subgriseo, abdomine fusco, pedibus posticis glabis, untrinque margine ciliatus is probably the
    - a. red oak.

- c. African lion.
- b. willow oak. d. European honeybee.
- 4. When can the genus name of an organism be abbreviated?
  - a. always, if it is common and everyone is familiar with the species
  - b. never, because it could be confused with another organism
  - c. sometimes, after it's first use is spelled out
  - d. occasionally, depending on the amount of space there is to write
- \_ 5. Who established the currently used rules for naming a species?
  - a. the scientist who discovered the species
  - b. an international commission of scientists
  - c. the government of the country where the species was discovered
  - d. Carolus Linnaeus
- 6. Linnaeus was the first to organize the genera and species that he described into
  - a. a ranked system of groups that increase in inclusiveness.
  - b. a random collection of groups.
  - c. several collections of major kinds of organisms, such as horses, fishes, and insects.
  - d. a ranked system of groups that increase in exclusiveness.

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## Chapter Test C continued

- \_\_\_\_ 7. The domain Eukarya is composed of
  - a. all prokaryotes.
  - b. all archaebacteria.
  - c. all animals.
  - d. all eukaryotes.

## 8. Which of the following organisms has a cell without a nucleus?

- a. an archaebacterium
- b. a protist
- c. a mushroom
- d. a eukaryote
- 9. Which of these is a derived character used to separate birds from reptiles?
  - a. flight
  - b. egg laying
  - c. feathers
  - d. clawed feet
  - \_\_\_\_ 10. In the five-kindgom system, prokaryotes were classified in the kingdom
    - a. Protista. c. Monera.
      - b. Eukarya. d. Bacteria.
- \_\_\_\_\_ 11. According to the modern tree of life, which pair of organisms shares the most recent common ancestor?
  - a. bacteria and protists
  - b. archaebacteria and fungi
  - c. sponges and cnidarians
  - d. conifers and flowering plants
  - \_\_\_\_ 12. Which of the following kingdoms *most likely* will be divided in several more kingdoms in the future?
    - a. Protista
    - b. Animalia
    - c. Eubacteria
    - d. None of the above
    - \_ 13. The wings of birds and the wings of insects represent
      - a. ancestral characters.
      - b. genetic similarities.
      - c. morphological similarities.
      - d. analogous characters.

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14. In lions and humans, hair is

- a. a derived character.
- b. an ancestral character.
- c. an analogous character.
- d. None of the above
- \_\_\_\_\_ 15. A phylogenetic tree is
  - a. based on derived characters without consideration for the importance of the characters.
  - b. an objective analysis of evolutionary relationships.
  - c. a diagram of evolutionary relationships developed through traditional systematics.
  - d. a diagram of evolutionary relationships developed through modern cladistics.

#### In the space provided, write the letter of the description that best matches each term.

16. domain	a. objective evolutionary analysis		
17. phylogeny 18. convergent evolution	b. contains genera		
	c. least inclusive		
	d. two-word naming system		
19. family	e. leads to analogous characters		
20. cladogram	f. most inclusive		
21. species	g. evolutionary history		

22. binomial nomenclature

#### Read each question, and write your answer in the space provided.

23. Describe the advantages of the modern system of binomial nomenclature.

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	What four characteristics do biolo kingdoms?			
25. Explain how convergent evolution leads to analogous characters. Explain y answer in terms of natural selection.				