

Study Guide – Ch 4

MATCHING

In the space provided, write the letter of the term or phrase that best matches the description.

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|---|----------------------|
| _____ 1. an individual living thing | a. ecosystem |
| _____ 2. a group of various species that live in the same place and interact with each other | b. population |
| _____ 3. living or once living part of an ecosystem | c. natural selection |
| _____ 4. unequal survival and reproduction that results from the presence or absence of particular traits | d. organism |
| _____ 5. all the organisms living in an area and their physical environment | e. resistance |
| _____ 6. change in the genetic characteristics of a population from one generation to the next | f. abiotic factor |
| _____ 7. all the members of the same species that live in the same place at the same time | g. evolution |
| _____ 8. nonliving part of an ecosystem | h. species |
| _____ 9. ability of one or more organisms to tolerate a particular chemical designed to kill it | i. community |
| _____ 10. group of organisms that are closely related and that can mate to produce fertile offspring | j. biotic factor |

MULTIPLE CHOICE

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

- _____ 11. What kind of habitat does a salamander need to survive?
- damp forest floor
 - sunny top of a tree
 - dry forest floor
 - sunny desert rock

Study Guide *continued*

- _____ 12. Which of the following kingdoms include organisms that can make their own food?
- protists and plants
 - plants and animals
 - fungi and plants
 - fungi and protists
- _____ 13. The Chihuahua is a dog that exists because of
- natural selection.
 - artificial selection.
 - resistance.
 - abiotic factors.
- _____ 14. Humans have promoted the evolution of insects that are resistant to insecticides by
- trying to control pests with chemicals.
 - using insecticides that are outdated.
 - using the wrong insecticide.
 - breeding more useful insects.
- _____ 15. Which of the following is not true of an adaptation?
- It is an advantage to an organism in certain environments.
 - It increases an organism's chance of reproducing.
 - It increases an organism's chance of survival.
 - It decreases an organism's chance of evolving.
- _____ 16. Which of the following is not one of the kingdoms of living things?
- Fungi
 - Bacteria
 - Animalia
 - Protista
- _____ 17. One way that bacteria and fungi are important to the environment is that they
- produce oxygen.
 - use the sun's energy to make their own food.
 - are a major food source in many ecosystems.
 - break down dead organisms.
- _____ 18. Phytoplankton are important protists because they are the initial source of
- food in most land ecosystems.
 - food in most ocean and freshwater ecosystems.
 - oxygen in the atmosphere.
 - Both (a) and (b)
- _____ 19. Many angiosperms depend on
- other animals in the oceans.
 - gymnosperms for reproducing.
 - plants for food.
 - animals to carry pollen and disperse seeds.
- _____ 20. Which of the following characteristics is shared by bacteria, fungi, and plants?
- They usually have cell walls.
 - They have cell nuclei.
 - They are single celled.
 - They have the ability to make their own food.