

Chapter 5 Study Guide

Read each question and circle the best answer.

1. Which of the following is most likely a characteristic of a desert organism?
 - A. A plant with large, thin leaves
 - B. A plant with waxy leaves
 - C. An animal with dark fur
 - D. An animal that hunts during the day

2. Why is algae important in pond environments?
 - A. They are consumers in pond food webs.
 - B. They are producers in pond food webs.
 - C. They use up all the sunlight.
 - D. They help keep the water cool.

3. Which non-living part of an ecosystem is needed by all plants and animals?
 - A. Soil
 - B. Water
 - C. Plants
 - D. All of the other answer choices

4. Which of the following would be classified as a producer in an ecosystem?
 - A. A dandelion
 - B. A mushroom
 - C. A coral
 - D. All of the other answer choices

5. Pigs eat both plants and other animals. Eagles eat only other animals. Which terms best describe a pig and an eagle?
- A. They are both carnivores.
 - B. They are both herbivores.
 - C. The pig is an omnivore. The eagle is a carnivore.
 - D. The pig is an herbivore. The eagle is an omnivore.
6. Which word best describes a living thing that eats only producers?
- A. Herbivore
 - B. Carnivore
 - C. Omnivore
 - D. Consumer
7. The organisms in a food web that receive energy directly from the sun are known as
- A. producers.
 - B. consumers.
 - C. decomposers.
 - D. All of the other answer choices
8. What will **most likely** happen if people start hunting and killing large numbers of the top consumers in a food web?
- A. The producers in the food web will no longer be able to make food.
 - B. The producers in the food web will make more food than usual.
 - C. The populations of animals the top consumers ate will grow smaller.
 - D. The populations of animals the top consumers ate will grow larger.

9. A flood kills off much of the plant life in an ecosystem. Which type of living thing would benefit the most from the sudden death of many plants?
- A. Producers
 - B. Consumers
 - C. Decomposers
 - D. Omnivores
10. A 300-year-old tree is struck by lightning. It falls to the forest floor. What changes will this event cause in the tree's ecosystem?
- A. Plants that grow best in shade will grow bigger.
 - B. Plants that grow best in sunlight will die.
 - C. Birds that nested in the tree will have to nest in another tree.
 - D. It will cause no changes in the tree's ecosystem.
11. Which natural event takes place over a long period of time?
- A. Forest fire
 - B. Drought
 - C. Hurricane
 - D. Flood

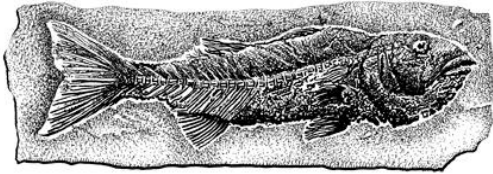
12. The loss of which part of this ecosystem would have the greatest effect on the ecosystem?
- A. The deer
 - B. The tree
 - C. The clouds
 - D. The pond



- 13.** Bees help some types of plants reproduce by spreading pollen from plant to plant. If many bees died due to disease, what effect could this have on a food web?
- A.** It would affect the number of producers available for consumers to eat.
 - B.** It would affect the number of consumers available for other consumers to eat.
 - C.** It would affect the number consumers available for producers to eat.
 - D.** It would affect the number of consumers available for decomposers to eat.
- 14.** A drought is a long period of time with no rain. What will probably happen to the plants and animals in an area during a drought?
- A.** Most will learn to live without water.
 - B.** They will all hibernate until the rain comes.
 - C.** They will all die and nothing will ever live there again.
 - D.** Some will die, some will live, and some will move to a new place.
- 15.** Lauren and her classmates created a terrarium ecosystem. They wore gloves to handle the soil, water, and plants. Then their teacher added populations of mealworms, pill bugs, and toads. The toads are carnivores, while the pill bugs and mealworms are herbivores. The students observed the terrarium each day and made notes about how the plants and animals looked and how many of each they could see. If their teacher removed the toads, what interaction would the students be likely to see between the remaining animals and their environment?
- A.** There will be more mealworms and pill bugs.
 - B.** There will be fewer mealworms and pill bugs.
 - C.** There will be more plants and fewer mealworms.
 - D.** There will be more pill bugs, mealworms, and plants.
- 16.** What might a paleontologist conclude if she found a trilobite fossil in a desert?
- A.** Trilobites lived in desert environments at one time.
 - B.** The desert was covered by water in the past.
 - C.** Earth's environments do not change over time.
 - D.** There must be trilobites living in the area.

17. Scientists use rock layers to determine the relative age of fossils. The oldest fossils are found in
- A. rock layers nearest the surface.
 - B. rock layers inside of caves.
 - C. layers of limestone rock.
 - D. the deepest rock layers.

18. Anthony has mold fossils of a fish and a plant. He draws a model of each.



Anthony has been told that the two fossils were found in different layers of rock. The fish fossil was found closer to the surface of the Earth than the plant fossil. Which statement most likely compares the fish and plant fossils correctly?

- A. The fish fossil is older than the plant fossil.
 - B. The plant fossil is older than the fish fossil.
 - C. When they were alive, the plant was larger than the fish.
 - D. None of the other answer choices
17. Look at the food chain below. How do foxes get energy?
- Grass → Rabbit → Fox**
- A. From eating grass
 - B. From the sun
 - C. From eating rabbits
 - D. From eating other foxes