

STUDY GUIDE

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ORGANISMS AND THEIR ENVIRONMENTS

On the blank write either T for true or F for false.

1. ____ The ozone layer is a layer of gas that surrounds Earth.
2. ____ Radiation has no effect on living things.
3. ____ No relationship exists between living things and the nonliving environment.
4. ____ Organisms do not interact with their environments.
5. ____ The biosphere extends from several miles up in the atmosphere to the deepest point of the ocean.
6. ____ The biosphere contains two regions, air and water.
7. ____ Pesticides sprayed in the air and fertilizers spread on land may affect the biosphere.
8. ____ Each part of the biosphere must be protected.
9. ____ Every organism in the biosphere depends on its ecosystem for survival.
10. ____ The environment supplies energy and materials for growth and repair.
11. ____ Plants do not need sunlight for photosynthesis.
12. ____ Fungi obtain energy by decomposing living things.
13. ____ Minerals are abiotic factors in the environment.
14. ____ Typical biotic factors in a pond are plants, bacteria, fish, and worms.

Write the word that is defined or described.

15. _____ the portion of Earth that supports life
16. _____ the study of relationships between organisms and living and nonliving factors in the environment
17. _____ nonliving factors in the environment
18. _____ living factors in the environment

Complete the definition of each of the following terms.

19. Population a group of _____ of the same _____ that live in a certain area at a certain time
20. Community all the _____ living in an area and _____ with each other
21. Habitat the _____ of a particular type of _____ ;
the _____ of a species

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22. Niche the role of a(n) _____ within a(n) _____;
the _____ or occupation of a species

Each of the following statements is false. To make the statement true, write a replacement word for each underlined word.

23. _____ Maple trees in a Vermont forest are considered a ecosystem.
24. _____ Mosquitoes constitute a community.
25. _____ Maple trees, birch trees, and morel mushrooms may make up a desert community.
26. _____ A habitat is composed of many populations.
27. _____ Maple trees produce organic food molecules through respiration.
28. _____ Several organisms can occupy the same habitat but not the same community.

Complete the sentence.

29. The _____ community and its _____ environment interact and function as a system.
30. A(n) _____ results from the interaction of a community and its environment.
31. The components of a garden ecosystem include _____, soil bacteria, soil _____, light, and moisture.
32. The three _____ necessary for a(n) _____ to remain balanced are a constant source of _____, energy converted into a type usable by organisms, and the _____ of _____ matter and inorganic nutrients.
33. A(n) _____ remains stable when there is a dynamic _____ between its _____ and _____ factors.