

Biology Test
Module 3

Name _____

Vocabulary: Choose the best definition and write its letter in the blank.

____ 1. Biosphere

____ 2. Species

____ 3. Biotic factors

____ 4. Abiotic factors

____ 5. Producers

- a. The sum of all of Earth's ecosystems in land, water, or air.
 - b. Organisms that produce their own food.
 - c. Any living part of an environment
 - d. One or more populations of individuals that can reproduce under normal conditions, produce fertile offspring, and are reproductively isolated from other such populations.
 - e. The nonliving physical and chemical conditions affecting organisms.
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____ 6. Consumers

____ 7. Decomposers

____ 8. Food web

____ 9. Biomass

____ 10. Transpiration

- f. Organisms that break down the dead remains of other organisms
- g. Organisms that eat living producers and/or other consumers for food.
- h. Evaporation of water from the leaves of a plant.
- i. A measure of the total dry mass of organisms (living tissue) within a trophic level in an ecosystem.
- j. Links all food chains in an ecosystem together.

_____ 11. Greenhouse Effect

_____ 12. Symbiosis

_____ 13. Habitat

_____ 14. Niche

_____ 15. Food chain

- k. A series of steps in which organisms transfer energy by eating and being eaten.
 - l. The specific environment of an organism both biotic and abiotic
 - m. The process by which certain gasses trap heat that would otherwise escape the earth and radiate into space
 - n. An organism's role in its ecosystem, including its habitat, physical requirements, time of day, place in the food chain, etc.
 - o. A close relationship between two or more species where at least one benefits.
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Multiple Choice

_____ 1. Which of the following is an example of a food chain?

- a. Soil --- carbon dioxide --- sunlight ---k plants
- b. Water --- hydrogen --- oxygen --- decomposition
- c. Algae --- minnow --- bass --- raccoon

_____ 2. Which of the following conditions would likely result in the most competition for food?

- a. A lion and a zebra in the Savanna
- b. An elephant and an ant colony in the Savanna
- c. A grasshopper and a plant in your backyard.
- d. A deer and a rabbit in a meadow.

_____ 3. When released in large quantities into the atmosphere, what gas do some scientists believe may be responsible for the greenhouse effect?

- a. Oxygen
- b. Carbon dioxide
- c. Nitrogen
- d. Sulfur dioxide

_____ 4. What is the trophic level of an organism that eats producers?

- a. Primary consumer
- b. Secondary consumer
- c. Tertiary consumer
- d. Quaternary consumer

____ 5. What is the trophic level of an organism that eats primary consumers?

- a. Primary consumer
- b. Secondary consumer
- c. Tertiary consumer
- d. Quaternary consumer

____ 6. What is the trophic level of an organism that eats tertiary consumers?

- a. Primary consumer
- b. Secondary consumer
- c. Tertiary consumer
- d. Quaternary consumer

True or False

____ 1. Our Ecosystem is a closed system.

____ 2. The ocean does not lose water.

____ 3. Oxygen is taken from the atmosphere by photosynthesis.

____ 4. One way carbon dioxide enters the atmosphere is by forest fires.

____ 5. Phosphorus is a mineral found in rocks.

____ 6. Nitrogen is a necessary element for life on planet earth.

____ 7. When a bull elk competes with other bulls for the ability to control the herd, it is an example of intraspecies competition.

____ 8. When hyenas and lions compete for the same prey, it is an example of parasitism.

____ 9. Invasive species, such as rabbits in Australia, can lead to extinction of a native species.

____ 10. Population growth within a community depends partly on birth rate.

____ 11. The amount of available sunlight does not affect most organisms.

Complete the hierarchical system of ecology diagram below.

Use these terms:

Ecosystem
Community
All life on earth

population
biosphere
organism

one species
one or more populations

an individual
biome

