

Assessment

Quiz**Section: Energy Flow in Ecosystems**

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

- _____ 1. Most life on Earth depends on which of the following?
a. animals that eat plants
b. photosynthetic organisms
c. animals that eat other animals
d. consumers on the second trophic level
- _____ 2. The lowest trophic level of any ecosystem is occupied by organisms such as
a. lions, wolves, and snakes. c. cows, horses, and caterpillars.
b. humans, bears, and pigs. d. plants and algae.
- _____ 3. A large, carnivorous predator would be placed in the
a. first trophic level. c. third trophic level.
b. second trophic level. d. fourth trophic level.
- _____ 4. Food webs are formed from food chains because
a. many individual animals feed at several trophic levels.
b. energy flows better in several directions.
c. all consumers depend on the same producers.
d. herbivores can eat many types of plants.
- _____ 5. The number of trophic levels that can be maintained in an ecosystem is limited by
a. the number of species in the ecosystem.
b. a gain in population size.
c. the loss of potential energy.
d. the number of individuals in the ecosystem.

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

- _____ 6. herbivore a. an animal that eats both plants and animals
_____ 7. carnivore b. an animal that eats only producers
_____ 8. omnivore c. an organism that obtains energy from the sun
_____ 9. producer d. an animal that eats only other animals
_____ 10. decomposer e. an organism that breaks down organic waste and dead bodies