

1. List the six levels of organization in order from LARGEST to SMALLEST below.
2. What level of organization does the following examples belong to?
  - a. red-winged blackbirds in a marsh? \_\_\_\_\_
  - b. all the honeybees in an orchard? \_\_\_\_\_
  - c. all the plants and animals in a forest? \_\_\_\_\_
  - d. the living and nonliving factors in a meadow? \_\_\_\_\_



- e. ? \_\_\_\_\_

For questions 3-9 **circle** the response that best completes each of the following statements or answers the following questions.

3. In order to be self-sustaining, an ecosystem must contain
  - a. large numbers of organisms
  - b. a warm, moist environment
  - c. a source of energy
  - d. organisms which occupy the same niche
4. In an ecosystem, what happens to the atoms of certain chemical elements such as carbon, oxygen, and nitrogen?
  - a. they move into and out of living systems.
  - b. they are never found in living systems.
  - c. they move out of living systems and never return.
  - d. they move into living systems and remain there.
5. All interacting populations in a given area represent an ecological unit known as a
  - a. population
  - b. biome
  - c. biosphere
  - d. community
6. Which title would be most appropriate for a textbook on general ecology?
  - a. The Interactions Between Organisms and Their Environment
  - b. The Cell and Its Organelles
  - c. The Heredity Mechanism of *Drosophila*
  - d. The Physical and Chemical Properties of Water

7. A certain plant requires moisture, oxygen, carbon dioxide, light and minerals in order to survive. This statement shows that a living organism depends on
- a. abiotic factors.
  - b. biotic factors.
  - c. carnivore-herbivore relationships.
  - d. symbiotic relationships.
8. A biotic component of the biosphere is represented by the
- a. mushrooms in a cave in the Shenandoah Mountains.
  - b. land in a cave in West Virginia.
  - c. annual range of temperatures in a lake in Tennessee
  - d. salt in the water of an ocean.
9. All of the Earth's water, land, and atmosphere within which life exists is known as
- a. community
  - b. ecosystem
  - c. population
  - d. biosphere

Correctly complete the following statements.

10. \_\_\_\_\_ is the study of the interactions of living things with each other and their environment.
11. A(n) \_\_\_\_\_ includes all of the organisms of the same species that inhabit a given location.
12. \_\_\_\_\_ are all the plant-eating animals.
13. \_\_\_\_\_ are all the meat-eating animals.
14. \_\_\_\_\_ are animals that consume both plants and animals.
15. \_\_\_\_\_ are animals that feed on animals killed by other organisms.

\*12-15 are not directly in the notes, but are terms you have studied before!