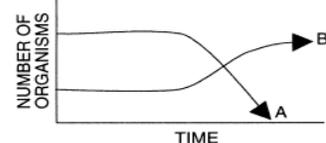


Choose the response which best completes each of the following statements or answers the following questions. Place the answer associated with that response on your own paper. (3.4 pts. @)

1. In order to be self-sustaining, an ecosystem must contain (1.) large numbers of organisms (2.) a warm, moist environment (3.) a source of energy (4.) organisms which occupy the same niche
2. All the red-winged blackbirds living in a marsh are (1.) a community (2.) a succession (3.) an ecosystem (4.) a population
3. In an ecosystem, what happens to the atoms of certain chemical elements such as carbon, oxygen, and nitrogen? (1) They move into and out of living systems. (2) They are never found in living systems. (3) They move out of living systems and never return. (4) They move into living systems and remain there.
4. In a natural community, all the living things that directly or indirectly affect the environment are known as (1.) pioneer organisms (2.) secondary consumers (3.) climatic limitations (4.) biotic factors
5. Which group can best be described as a population? (1.) all the honeybees in an orchard (2.) all the plants and animals in a forest (3.) the life in Earth's atmosphere (4.) the living and nonliving factors in a meadow
6. Which factor promotes competition between organisms in an ecosystem? (1.) cycling of materials (2.) limited resources (3.) presence of saprophytes (4.) decomposition of organic matter
7. All the interacting populations in a given area represent an ecological unit known as a (1.) population (2.) biome (3.) biosphere (4.) community
8. Which title would be most appropriate for a textbook on general ecology? (1.) The Interactions Between Organisms and Their Environment (2.) The Cell and its Organelles (3.) The Hereditary Mechanism of Drosophila (4.) The Physical and Chemical Properties of Water

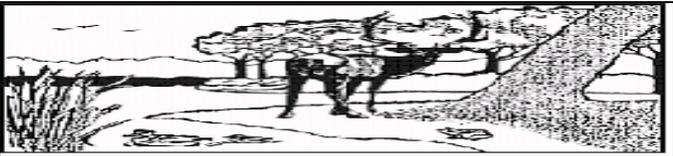
9-10. State two reasons for the population changes shown in the graph at the right.



11. A certain plant requires moisture, oxygen, carbon dioxide, light, and minerals in order to survive. This statement shows that a living organism depends on (1.) abiotic factors (2.) biotic factors (3.) carnivore-herbivore relationships (4.) symbiotic relationships
12. An biotic component of the biosphere is represented by the (1.) mushrooms in a cave in the Catskill Mountains (2.) land in a cave in Kentucky (3.) annual range of temperatures in a lake in New York State (4.) salt in the water of an ocean

13. A student set up a terrarium containing moist soil, several plants, and snails. The terrarium was placed in a sunny area. Which factor is **not** essential for the maintenance of the terrarium?
 (1.) a cycling of materials between organisms and their environment (2.) a constant source of energy (3.) a living system capable of incorporating energy into organic compounds
 (4.) the introduction of another heterotroph into the terrarium
14. All of Earth's water, land, and atmosphere within which life exists is known as
 (1.) community (2.) ecosystem (3.) population (4.) biosphere

15. Which ecological term includes everything represented in the illustration at the right?
 (1) ecosystem (2) population
 (3) community (4) species



16. The size of a mouse population in a natural ecosystem tends to remain relatively constant due to
 (1) the carrying capacity of the environment (2) the lack of natural predators (3) cycling of energy
 (4) increased numbers of decomposers

Correctly complete the following statements. (3.4 pts. @)

17. _____ is the study of the interactions of living things with each other and their environment.
18. A(n) _____ includes all of the organisms of the same species that inhabit a given location.
19. _____ factors are those living factors in the environment, such as disease and predation.
20. The entire region of the world where living things are found is called the _____.
21. _____ can synthesize organic compounds from inorganic compounds and sunlight.
22. _____ like animals and fungi are dependent on other organisms for their food
23. _____ are all the plant-eating animals.
24. _____ are all the meat eating animals
25. _____ are animals that consume both plants and meat.
26. _____ are animals which kill and consume their prey
27. _____ are animals that the predators kill.
28. _____ are those animals that feed on other animals that they have not killed.
29. All the interacting organisms of different species in a location comprise a(n) _____.