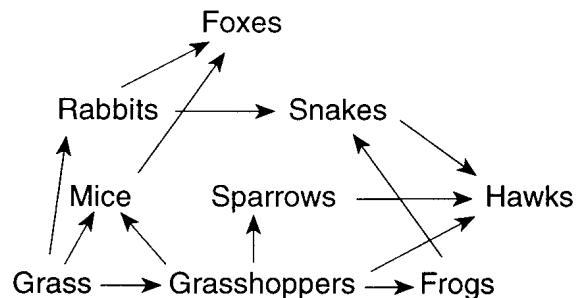


Base your answers to questions 1 and 2 on the 5 lettered headings listed below. Select the single heading that most directly applies to the subsequent statement. Each heading may be used once, more than once, or not at all within its group.

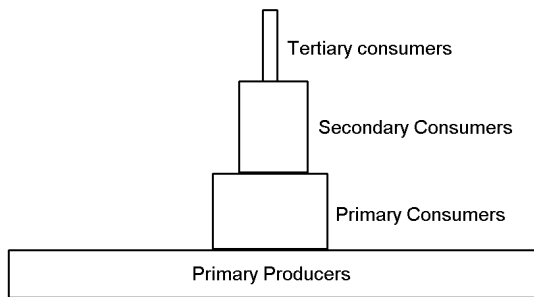
- (A) Ecological Niche
- (B) Fundamental Niche
- (C) Realized Niche
- (D) Resource Partitioning
- (E) Character Displacement

1. The set of resources a population hypothetically has the capacity to use under ideal circumstances.
  2. The sum total of an organism's utilization of the abiotic and biotic resources available in its environment.
- 
3. Which of the following would occur if all the detritus was removed from an ecosystem?
    - A) It would be cleaner and better suitable for secondary consumers.
    - B) Prokaryotes and fungi would multiply at a greater rate.
    - C) The ecosystem would fail due to lack of nutrients and other organic material.**
    - D) Primary producers would secrete enzymes that degrade other organic material.
    - E) Energy would be returned to the ecosystem at a faster rate.
  4. Net primary productivity can be a measure of
    - A) the efficiency of the hydrologic cycle
    - B) the food resources available on Earth**
    - C) the availability of vital minerals on Earth
    - D) the percentage of an ecosystem that is healthy
    - E) none of the above



5. In the food web above, which animals are tertiary consumers?
  - A) Rabbits and sparrows
  - B) Sparrows and hawks
  - C) Snakes and hawks**
  - D) Frogs and foxes
  - E) Mice and grasshoppers
6. Organisms that have the exact same source of nutrition within a food web can best be described as
  - A) providing links in the food chain
  - B) occupying the same trophic level**
  - C) being omnivores
  - D) being herbivores
  - E) being tertiary consumers
7. The greatest energy source in the food chain is the
  - A) tertiary consumers
  - B) secondary consumers
  - C) primary consumers
  - D) decomposers
  - E) producers**

- 
8. Base your answer to the following question on the pyramid of biomass for an aquatic community.



The pyramid implies that in order to sustain life, 2,000 pounds of sharks would require

- A) 2,000 pounds of secondary consumers
  - B) less than 2,000 pounds of secondary consumers
  - C) more than 2,000 pounds of secondary consumers**
  - D) less than 2,000 pounds of primary producers
  - E) more than 2,000 pounds of primary producers
9. Organisms that have the exact same source of nutrition within a food web can be best described as
- A) providing links in the food chain
  - B) occupying the same trophic level**
  - C) being omnivores
  - D) being herbivores
  - E) being tertiary consumers in the food chain
-

**Answer Key**  
**Ecology1ReviewQuestions**

1. B
  2. A
  3. C
  4. B
  5. C
  6. B
  7. E
  8. C
  9. B
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