



**Test Prep Pretest *continued***

- \_\_\_\_\_ 7. The most likely reason that this figure shows only five levels is that
- pollution probably destroyed all of the higher levels.
  - no other organisms are powerful enough to kill and eat the killer whale.
  - too much energy is lost at each level to permit more levels.
  - there is not enough energy initially present at the first level.
- \_\_\_\_\_ 8. The process of succession varies depending on
- the plant species involved.
  - initial environmental conditions and chance.
  - pioneer species.
  - competition between species.
- \_\_\_\_\_ 9. The conversion of nitrate to nitrogen gas is called
- assimilation.
  - ammonification.
  - nitrification.
  - denitrification.

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

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|----------------------|---|
| _____ 10. habitat    | a. animals at the second trophic level that eat plants        |
| _____ 11. community  | b. the place where a particular population of a species lives |
| _____ 12. ecosystem  | c. the many species that live together in a habitat           |
| _____ 13. herbivores | d. animals at the third trophic level that eat other animals  |
| _____ 14. carnivores | e. a community and all the physical aspects of its habitat    |

**Complete each statement by writing the correct term or phrase in the space provided.**

15. The physical aspects of an ecosystem, or its \_\_\_\_\_  
\_\_\_\_\_, include soil, water, and weather.
16. In a(n) \_\_\_\_\_, the amount of energy stored at each level determines the width of each block.
17. The amount of energy that can be passed on to the third trophic level is about \_\_\_\_\_ percent of the amount of energy available to the \_\_\_\_\_ trophic level.

**Test Prep Pretest *continued***

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18. The process of combining nitrogen gas with hydrogen to form ammonia is called \_\_\_\_\_ .
19. The production of ammonia by bacteria during the decay of animal waste is called \_\_\_\_\_ .

**Read each question, and write your answer in the space provided.**

20. What components are included in an ecosystem but not in a community?

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21. Why are energy pyramids never inverted?

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22. Trace the cycling of water between the atmosphere and Earth.

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23. List the four stages of the nitrogen cycle.

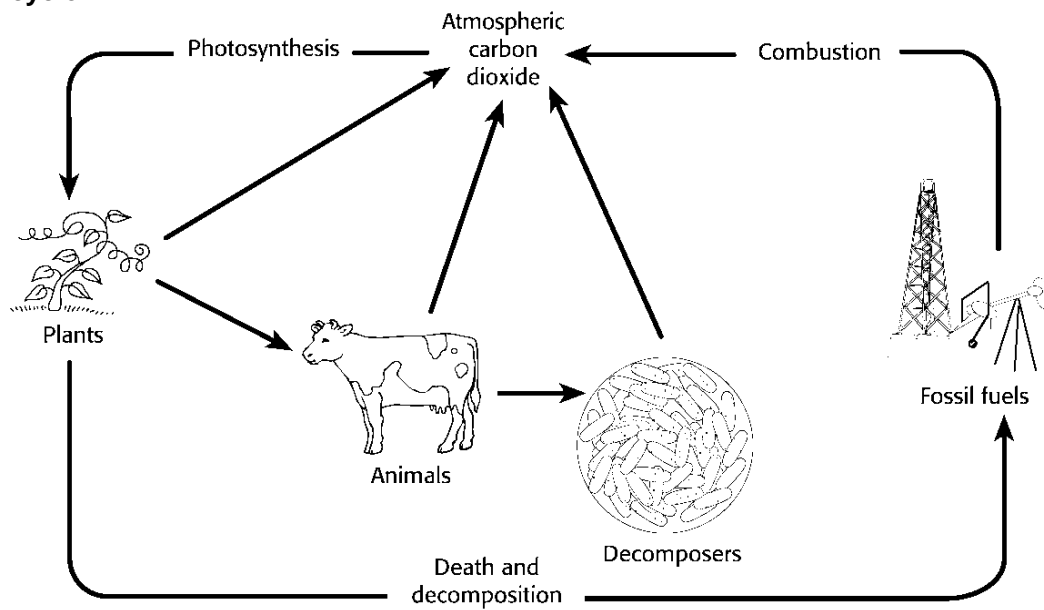
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Test Prep Pretest *continued*

Questions 24 and 25 refer to the figure below, which shows the carbon cycle.



24. How do the living organisms in the figure return carbon atoms to the pool of carbon dioxide in the atmosphere and water?

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25. What process releases carbon into the atmosphere from fossil fuels?

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