

**SECTION 19-1 REVIEW**

# ECOLOGY

**VOCABULARY REVIEW** Define the following terms.

1. ecology \_\_\_\_\_  
\_\_\_\_\_
2. greenhouse effect \_\_\_\_\_  
\_\_\_\_\_
3. biosphere \_\_\_\_\_
4. ecosystem \_\_\_\_\_  
\_\_\_\_\_
5. community \_\_\_\_\_
6. population \_\_\_\_\_

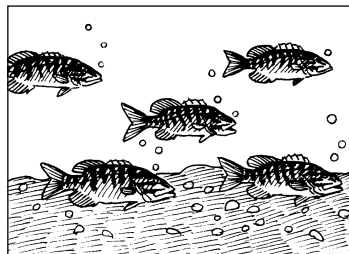
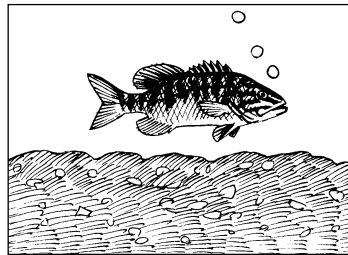
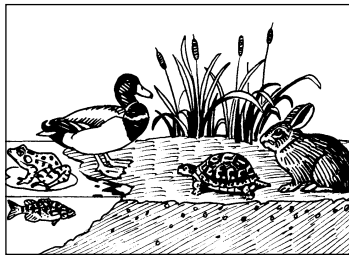
**MULTIPLE CHOICE** Write the correct letter in the blank.

- \_\_\_\_\_ 1. What percentage of the world's species are expected to disappear in the next century if the current rate of extinction continues?  
a. 1%                      b. 20%                      c. 95%                      d. 100%
- \_\_\_\_\_ 2. The ozone layer in the upper atmosphere is diminishing most over  
a. Asia.                      b. North America.                      c. Africa.                      d. Antarctica.
- \_\_\_\_\_ 3. The broadest, most inclusive level of ecological organization is the  
a. population.                      b. community.                      c. biosphere.                      d. ecosystem.
- \_\_\_\_\_ 4. A pond is an example of  
a. a population.                      b. a community.                      c. a biosphere.                      d. an ecosystem.
- \_\_\_\_\_ 5. Ecologists use models to  
a. make predictions about the future behavior of an ecosystem.  
b. substitute for observations from the natural world.  
c. increase the complexity of simple ecosystems.  
d. account for the influence of every variable in a real environment.

**SHORT ANSWER** Answer the questions in the space provided.

1. What factors contributed to the extinction of native birds on the Hawaiian Islands after humans arrived? \_\_\_\_\_  
\_\_\_\_\_
2. Why is the thinning of Earth's ozone layer a serious problem? \_\_\_\_\_  
\_\_\_\_\_
3. How does a population differ from a community? \_\_\_\_\_  
\_\_\_\_\_
4. **Critical Thinking** How might the destruction of large areas of tropical rain forest have world-wide consequences? \_\_\_\_\_  
\_\_\_\_\_

**STRUCTURES AND FUNCTIONS** The drawings below represent five levels of ecological organization. In the spaces provided, label the levels and number them from 1 to 5, with 1 being the most inclusive.



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