

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.

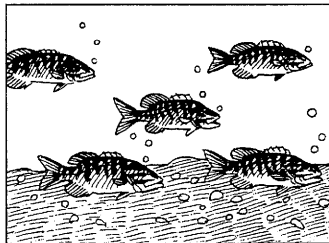
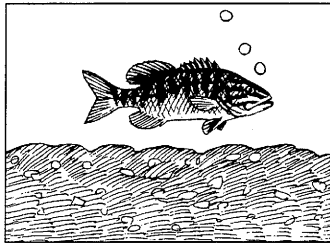
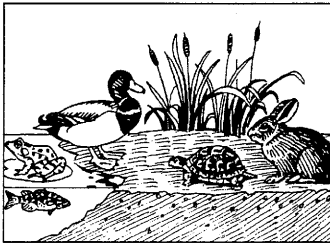
1. What factors contributed to the extinction of native birds on the Hawaiian Islands after humans arrived? _____

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.



HRW material copyrighted under notice appearing earlier in this work.

SECTION 19-2 REVIEW

ECOLOGY OF ORGANISMS

VOCABULARY REVIEW Distinguish between the terms in each of the following pairs of terms.

1. habitat, resource _____

2. biotic factor, abiotic factor _____

3. conformer, regulator _____

4. fundamental niche, realized niche _____

5. generalist, specialist _____

MULTIPLE CHOICE Write the correct letter in the blank.

- _____ 1. One biotic factor that could influence a plant might be

a. the amount of sunlight.	c. carbon dioxide concentration.
b. soil pH.	d. a pollinating insect.
- _____ 2. People who spend time at high elevations develop more red blood cells, which helps them obtain oxygen from the "thin air." This phenomenon is an example of

a. acclimation.	b. adaptation.	c. migration.	d. dormancy.
-----------------	----------------	---------------	--------------
- _____ 3. An animal that maintains its body temperature within a narrow range even when the environmental temperature varies is an example of a

a. specialist.	b. generalist.	c. regulator.	d. conformer.
----------------	----------------	---------------	---------------
- _____ 4. The role a species plays in its environment is called the species'

a. habitat.	b. niche.	c. resources.	d. tolerance curve.
-------------	-----------	---------------	---------------------
- _____ 5. An animal that feeds on leaves from only a few species of plants is an example of a

a. specialist.	b. generalist.	c. regulator.	d. conformer.
----------------	----------------	---------------	---------------

SHORT ANSWER Answer the questions in the space provided.

1. Give three examples of abiotic factors and explain how they interact. _____

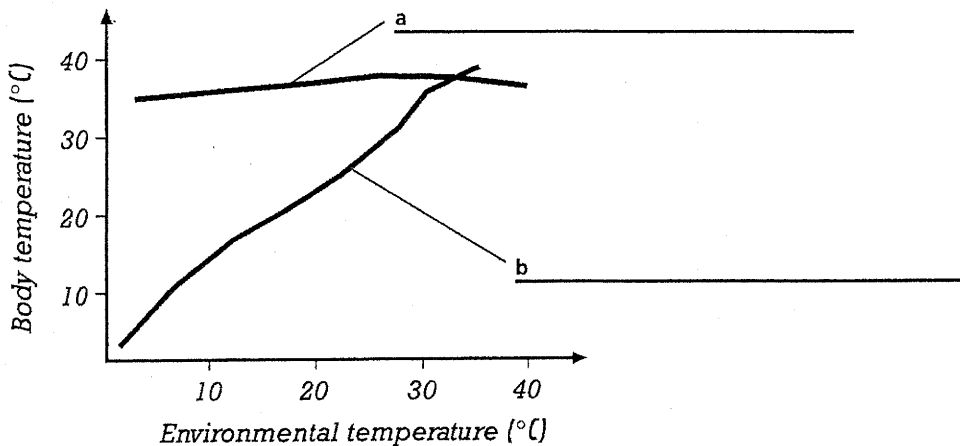
2. What are two ways that some organisms can escape from unfavorable environmental conditions?

3. Explain why the Virginia opossum is considered a generalist and the koala is considered a specialist.

4. Explain how a species' habitat differs from its niche. _____

5. **Critical Thinking** How could knowledge of a pest organism's tolerance limits be used in pest control? _____

STRUCTURES AND FUNCTIONS Label the curves in the graph below according to the type of organism they represent, and give a specific example of each type of organism.



HRW material copyrighted under notice appearing earlier in this work.