

SECTION 23-2 REVIEW

THE BIODIVERSITY CRISIS

VOCABULARY REVIEW Define the following terms.

1. biodiversity _____

2. evenness _____

3. genetic diversity _____

MULTIPLE CHOICE Write the correct letter in the blank.

- _____ 1. Which of the following is not a measure of biodiversity?

a. evenness	c. genetic diversity
b. genetic recombination	d. species richness

- _____ 2. Of the following groups, which contains the greatest number of species?

a. crustaceans	b. mammals	c. plants	d. insects
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- _____ 3. The mass extinction currently under way is different from previous mass extinctions because it

a. is being caused largely by humans.	b. involves the loss of more species.
c. is occurring at a time when biodiversity is already low.	d. is actually causing an increase in biodiversity.

- _____ 4. In a debt-for-nature swap,

a. developing countries destroy their natural ecosystems to build their economies.	b. countries go into debt to pay for the conservation of their natural resources.
c. richer countries pay off some of the debts of developing countries that take steps to preserve biodiversity.	d. richer countries pay developing countries to convert their rain forests into farms.

- _____ 5. One nonutilitarian reason for preserving biodiversity would be that

a. some undiscovered species might provide sources of medicines.	b. ecosystem functions that are vital to humans depend on biodiversity.
c. biodiversity provides a wide range of food and building materials for humans.	d. organisms have value simply because they exist.

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SHORT ANSWER Answer the questions in the space provided.

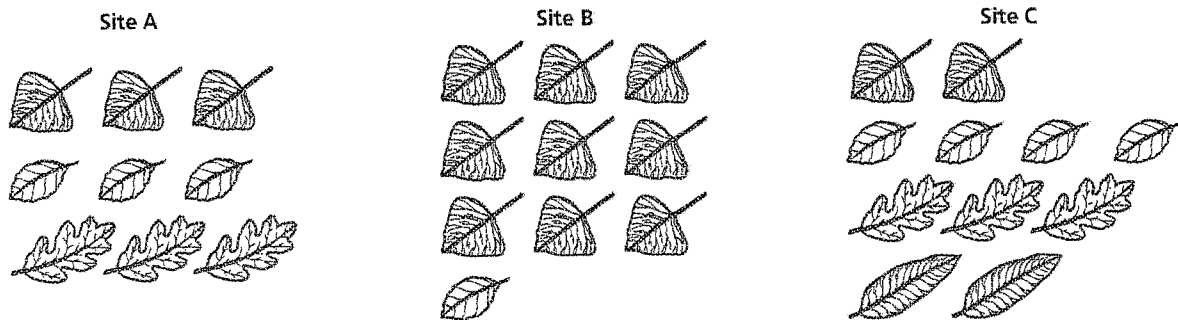
1. What effect do human activities, such as farming, have on biodiversity? _____

2. Why is the destruction of tropical rain forests especially damaging to biodiversity? _____

3. What is ecotourism, and how can it be used to preserve biodiversity? _____

4. **Critical Thinking** Why do some botanists store the seeds of newly discovered plant species or varieties in dry, refrigerated seed banks? _____

STRUCTURES AND FUNCTIONS Use the drawings below to answer the following questions. The drawings show the number of individuals of four plant species found at three sites. Each leaf represents one plant.



1. Which site has the greatest species richness? _____
2. Which site has the lowest species richness? _____
3. Which site has the greatest species evenness? _____
4. Which site has the lowest species evenness? _____
5. Which site has the greatest species diversity? _____
6. Which site has the lowest species diversity? _____

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