comparing and contrasting these two terms.

Name_____Period____

| restoration ecology | |
|--|---|
| Concept 56.1 Human activiti | ies threaten Earth's biodiversity |
| decreasing diversity in e | diversity on three levels. In the table below, explain the impact ach division. Begin reading on page 1248, where the topic changes fore answering this question. |
| Level of Biodiversity | Impact |
| Genetic diversity | |
| Species diversity | |
| | |
| Ecosystem diversity 2. Explain the difference bet | tween endangered species and threatened species. |
| 2. Explain the difference bet | ween endangered species and threatened species. your thoughts on how the following three threats affect biodiversity. |
| 2. Explain the difference bet 3. Use this table to organize Threat to Biodiversity | |
| 2. Explain the difference bet 3. Use this table to organize Threat to Biodiversity | your thoughts on how the following three threats affect biodiversity. |
| Explain the difference bet Use this table to organize | your thoughts on how the following three threats affect biodiversity. |

Chapter 56: Conservation Biology and Restoration Ecology

In the overview at the beginning of the chapter, the author sets the stage for this final chapter of the book. This chapter will deal with both *conservation biology* and *restoration ecology*. Let's begin by

4. List five *introduced species* that present a serious threat to their new communities. Explain the damage done by each introduced species. ***Include two introduced species that are a threat in your own region of the country. Indicate these with an asterisk.

| Introduced Species | Damage | |
|---------------------------|--------|--|
| (1) | | |
| (2) | | |
| (3) | | |
| (4) | | |
| (5) | | |
| | | |

Concept 56.2 Population conservation focuses on population size, genetic diversity, and critical habitat

- 5. What do conservation biologists who adopt the *small-population approach* study?
- 6. Explain what an extinction vortex is, and describe one field study that supports this idea.
- 7. Why is genetic variation the key issue in the small-population approach?
- 8. On what type of population does the *declining-population* model focus?
- 9. What is the emphasis for study in the declining-population model?

10. Scientists drilled nest holes for red-cockaded woodpeckers in an attempt to increase their population levels. How is this action a response to the declining-population model?

Concept 56.3 Landscape and regional conservation aim to sustain entire biotas

- 11. Describe how the increase in cowbirds is related to forest fragmentation.
- 12. What are potential positive and negative effects of *movement corridors*?
- 13. Explain the concept behind a zoned reserve.

Concept 56.4 Restoration ecology attempts to restore degraded ecosystems to a more natural state

- 14. What is the goal of restoration ecology?
- 15. Restoration ecology uses two key strategies. Explain how each strategy works:

bioremediation

biological augmentation

Concept 56.5 Sustainable development seeks to improve the human condition while conserving biodiversity

16. Explain the concept behind the phrase "sustainable development."

| Now you should be ready to test your knowledge. Place your answers here: | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|--|--|--|
| | | | | | | | | | | | |
| 1 | 2 | 3 | 1 | 5 | 6 | 7 | Q | 0 | | | |



Testing Your Knowledge: Self-Quiz Answers

Kudzu, the wonder vine! Will not climb!