AP Biology	Name
CH 56 Reading Guide: C 10ed	Conservation Biology and Global Change
Ecologists are particula four processes of t	rly concerned about the impact of human activities on which he biosphere?
-	
2. Define Conservation B	iology?
2	diversity on three levels. In the following table, explain the ng diversity in each division
Level of Biodiversity	Impact
Genetic diversity	
Species diversity	
Ecosystem diversity	
4. Explain the difference	between endangered species and threatened species.
5. Use this table to organi biodiversity.	ize your thoughts on how the following four threats affect
Threats to Biodiversity	How it Reduces Biodiversity
Habitat Loss	
Introduced species	
Overharvesting	
Global Change	

6. **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. 7. **What** do conservation biologists who adopt the *small-population approach* study? 8. What is an extinction vortex? Explain what drives an extinction vortex. 9. Why is the total number of individuals in a small population not a good measure of its reproductive potential? 10. On **what type** of population does the *declining-population* model focus? 11. **What** is the emphasis for study in the declining-population model?

12. 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?

13. **Describe** how the increase in cowbirds is related to forest fragmentation.

14. What are the potential positive and negative effects of <i>movement corridors</i> ? Positive:
Negative:
15. Explain the concept behind a zoned reserve.
16. How has agriculture affected nitrogen cycling? What are some negative consequences of nutrient enrichment? How: What:
17. Explain the process of biological magnification. Discuss at least <u>one</u> example.
18. What is meant by the <i>greenhouse effect</i>? What would life on Earth be like without this effect?
19. What is contributing to the great increase in atmospheric CO₂? What are the potential effects of this increase?
20. How is atmospheric ozone depleted? What are projected effects of this depletion?
21. Explain the concept behind the phrase <i>sustainable development</i> .

