

Review Questions - Chapter 9

Answer the following questions using your OWN WORDS!!!! DO NOT copy right out of the book!!! Please attach this handout with your answers. All answers should be hand-written!!

1. Distinguish among local, ecological, and biological extinction of a species.
2. Distinguish between endangered and threatened species and give two examples of each. List eight characteristics that make species vulnerable to biological extinction.
3. Give three reasons why it is so difficult to estimate how human activities are affecting extinction rates. Describe two methods scientists use to estimate how human activities are affecting extinction rates.
4. List three reasons why most biologists believe their current estimates of extinction rates from human activities are probably too low.
5. Explain why we should care about species extinction. What is the intrinsic value of species? What is biophilia?
6. What is HIPPCO? Which of these is the single greatest threat to species?
7. What are four basic causes of the population reduction and extinction of wild species?
8. What percentage of the world's known bird species are (a) declining in numbers and (b) threatened with extinction? List three reasons why birds are excellent indicators of environmental conditions.
9. Give two examples of (a) deliberately introduced harmful species and (b) accidentally introduced harmful species.
10. What are major characteristics of (a) successful invader species and (b) ecosystems vulnerable to invader species? List four ways to reduce the threat from nonnative species.
11. List the benefits and limitations of protecting species using (a) the Convention on International Trade in Endangered Species (CITES) and (b) the Endangered Species Act (ESA) in the United States.
12. Distinguish among habitat conservation plans, safe harbor agreements, and voluntary candidate conservation plans used as ways to help implement the ESA.
13. What are the advantages and disadvantages of compensating landowners when the protection of endangered species decreases the financial value of their land?
14. Summarize the advantages and disadvantages of using the following to help protect endangered species: (a) wildlife refuges, (b) gene banks and botanical gardens, (c) zoos and animal research centers, and (d) aquariums.