

Focus Questions  
Sustaining Biodiversity  
Chapters 9-11  
APES

Focus Questions

**Chapter 9**

- Explain the human activities that speed up extinction. (9-1)
- Describe the difference between endangered and threatened species. (9-1)
- What characteristics make species more prone to extinction. Provide examples. (9-1)
- Explain the reasons we should attempt to prevent extinctions. (9-2)
- What is HIPPCO? Explain and provide examples. (9-3)
- What problems are birds currently facing? (9-3)
- Describe the problems honeybees are facing. (9-3)
- Explain the international treaties that exist to protect species. (9-4)
- Describe the Endangered Species Act. What are the strengths and weaknesses? (9-4)
- What are the advantages and disadvantages of zoos? (9-4)

**Chapter 10**

- Describe the ecological and economic services forests provide. (10-1)
- Describe the different methods of logging and the advantages and disadvantages of each. (10-1)
- What threats to forests face? (10-1)
- What are the major causes of tropic forest destruction? (10-1)
- Explain how forest fires could be better managed. (10-2)
- Who is Wangari Maathai and why was she an important environmental figure? (10-2)
- Explain how grasslands can be better managed. (10-3)
- Explain the problems that National Parks and Nature Reserves face. How can these problems be addressed? (10-4)
- Explain how Costa Rica has become one of the leaders in the global conservation movement. (10-4)
- What specific ways can ecosystems be protected? (10-5)
- How can degraded ecosystems be restored? (10-5)

**Chapter 11**

- Explain specific ways humans impact aquatic biodiversity. (11-1)
- Describe the different ways fish are harvested and the advantages and disadvantages of each. (11-1)
- Explain the laws and treaties that protect aquatic species. (11-2)
- What approaches have been attempted to protect whales? Explain the successes and limitations of these approaches. (11-2)
- How can marine ecosystems and species be protected? (11-2)
- Explain how fishery populations can be monitored. (11-3)
- Explain how governments encourage overfishing. (11-3)
- Explain how wetlands can be better managed. What problems have been encountered in the Florida Everglades? (11-4)
- Explain the ways the Great Lakes have been impacted by invasive species. (11-5)

Key Terms

**Chapter 9**

background extinction  
extinction rate  
mass extinction  
endangered species  
threatened species

instrumental value  
intrinsic value  
HIPPCO  
environmental indicators  
Endangered Species Act of 1973

Convention of Biological Diversity  
CITES  
habitat conservation plan  
captive breeding  
precautionary principle

**Chapter 10**

old-growth forest  
second-growth forest  
tree plantation  
clear-cut  
selective cutting  
deforestation  
tipping point  
debt-for-nature swaps  
rangelands

pastures  
overgrazing  
undergrazing  
rotational grazing  
riparian zones  
conservation easements  
buffer zone concept  
habitat corridors  
wilderness

biodiversity hotspots  
endemic  
ecological restoration  
restoration  
rehabilitation  
replacement  
creating artificial ecosystems  
reconciliation

**Chapter 11**

fishprint  
biological extinction  
trawler fishing  
purse-seine fishing  
longlining  
drift-net fishing

cetaceans  
toothed whales  
baleen whales  
reconciliation ecology  
Marine Protected Areas (MPAs)

integrated coastal management  
maximum sustainable yield (MSY)  
optimum sustainable yield (OSY)  
multispecies management  
individual transfer rights (ITRs)