Chapter D		Reinforcement and Study Guid
	ological Diversity Id Conservation	Section 5.1 Vanishing Sp
In your textbook, rea	ad about biological diversity.	
Use the terms belo	w just once to complete the passage. Yo	ou will not use all the terms.
environmen biological di	ts variety greater iversity equator less	
(1)	refers to the (2)	of life in an
area. Another word f	for biological diversity is biodiversity. The	simplest measure of biodiversity is the
number of (3)	that live in a cert	ain area. The more species there are,
the (4)	is the biodiversity of the	area. Biodiversity on land tends to
(5)	as you move toward the (6)	
Biodiversity is greate	er on large islands than on small islands bec	cause large islands have more
(7)	and a greater variety of (8)	
In your textbook, rea	d about the importance of biodiversity.	
For each statement	below, write <u>true</u> or <u>false</u> .	
- MUSARAN -	• D' 1' ' '1 11	with boarter
	9. Biodiversity provides our world v	vitil Deauty.
		system usually has no effect because of
	10. The loss of a species from an eco presence of other species in the e	system usually has no effect because of cosystem.
	 10. The loss of a species from an eco presence of other species in the e 11. Biodiversity decreases the stabilit 	system usually has no effect because of cosystem. y of ecosystems because more species a
	 10. The loss of a species from an eco presence of other species in the e 11. Biodiversity decreases the stabilit competing with each other. 12. Increasing the biodiversity of an other in the biod	system usually has no effect because of cosystem. y of ecosystems because more species a ecosystem may result in more niches. l in an ecosystem with high biodiversity
	 10. The loss of a species from an eco presence of other species in the e 11. Biodiversity decreases the stabilit competing with each other. 12. Increasing the biodiversity of an e 13. Diseases are more likely to spread 	system usually has no effect because of cosystem. y of ecosystems because more species a ecosystem may result in more niches. d in an ecosystem with high biodiversity odiversity.

Date

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Chapter 5 Biological Divers and Conservation			ement and Stud	
In your textbook, read about the loss	of biodiversity.	S	ection 5.1 Vanishi	ng Species, continued
For each item in Column A, write	the letter of the matching in	tem in Co	lumn B.	
alange and	Column A		Colum	ın B
16. The number of n there is a possibil	nembers of a species is so low t ity of extinction.	hat .	a. passenge	r pigeon
17. This animal is an	example of an endangered spe	cies.	b. threatene	ed species
18. The population of	of a species begins declining raj	pidly.	c. black rhin	noceros
19. This animal is an	example of an extinct species.		d. African e	lephant
20. All members of a no longer exists.	species have died, so the specie	es	e. extinct sp	oecies

21. This animal is an example of a threatened species.

In your textbook, read about threats to biodiversity.

Complete the table by checking the correct column for each statement.

Statement	Habitat Loss	Habitat Fragmentation	Habitat Degradation	
22. Animals have no migratory route.				
23. A rain forest is burned.	*. · · · · · · · · · · · · · · · · · · ·			
24. A highway divides a forest.				
25. Acid precipitation leaches nutrients from the soil.	omi nova di v to			
26. Detergents and other chemicals pollute bodies of water.				
27. Coral is mined for building materials.	na di si di si Si di si d			
28. The reduction of the ozone layer causes more ultraviolet radiation to reach Earth's surface.	nine en e			

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f. endangered species

Biological Diversity

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d. pollution.

and Conservation, contin	nued Section 5.1 Vanishing Species, continued
Circle the letter of the choice that best co	ompletes the statement.
29. When species lose their habitats, they m	
a. lack food.	b. lack shelter.
c. be in danger of becoming extinct.	d. all of the above.
30. Habitat fragmentation often leads to	
a. increased species diversity within an area.	b. larger habitats for species.
c. decreased species diversity within an area.	d. an increased food supply for species.
31. Different conditions along the boundari	
a. habitat fragmentation. b. edg	ge effect. c. habitat loss. d. canopy effect.
32. The greatest source of air pollution is	
a. volcanic eruptions.	b. forest fires.
c. burning fossil fuels.	d. CFCs.
33. Acid precipitation	
a. may decrease biodiversity on land.	b. has no effect on biodiversity.
c. may increase biodiversity in water.	d. both a and c.
34. The reduction of the ozone layer is caus	
a. burning fossil fuels. b. acid pro	ecipitation. c. heavy metals. d. CFCs.
35. Algal blooms in lakes	
a. are caused by acid precipitation.	b. decrease the amount of oxygen in the lake when they decay.
c. clog the gills of fish.	d. both a and b.
36. When exotic species are introduced into because the species	an area, their populations may grow exponentially
a. are large.	b. are predators.
c. lack competitors and predators.	d. are small.
37. The African elephant population was gr	eatly reduced between 1970 and 1990 due to
a. habitat degradation.	b. excessive hunting.

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E

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c. habitat loss.

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V	ame	

Biological Diversity and Conservation, *continued*

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Section 5.2 Conservation of Biodiversity

In your textbook, read about strategies of conservation biology.

Answer the following questions.

1. What is conservation biology?

2. How does the U.S. Endangered Species Act protect biodiversity?

3. How do nature preserves help protect biodiversity?

4. Why is it usually better to preserve one large area of land instead of a few smaller areas of land?

5. Why are habitat corridors used to connect different protected areas?

6. What caused the steady decline of the black-footed ferret population in Wyoming?

7. What efforts were made to increase the size of the black-footed ferret population?

8. How are seed banks useful in protecting biodiversity?

9. What are some problems of keeping endangered animals in captivity before reintroducing them to their original habitats?

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