# **S Biological Diversity and Conservation**

Reinforcement and Study Guide

Section 5.1 Vanishing Species

In your textbook, read about biological diversity.

Use the terms below just once to complete the passage. You will not use all the terms.

environments	variety	greater	space	species		
biological diversity	equator	less	decrease	increase		
(1)	refers	of life in an				
area. Another word for biologic	cal diversity is bio	diversity. The sim	plest measure of bi	odiversity is the		
number of <b>(3)</b>	that live in a certain area. The more species there are,					
the <b>(4)</b>	is the biodiversity of the area. Biodiversity on land tends to					
(5)	as you move t	toward the <b>(6)</b>		·		
Biodiversity is greater on large	islands than on sr	nall islands becaus	e large islands have	e more		
(7)	and a greater	variety of <b>(8)</b>		·		
In your textbook, read about th	-	-				
For each statement below, w			_			
<b>9.</b> l	Biodiversity provid	les our world with	beauty.			
		es from an ecosyst species in the ecosy		effect because of the		
	Biodiversity decreace competing with ea		ecosystems becaus	se more species are		
<b>12.</b> I	ncreasing the biod	diversity of an ecos	system may result i	n more niches.		
<b>13.</b> I	Diseases are more han in an ecosyste	likely to spread in em with low biodiv	an ecosystem with rersity.	high biodiversity		
<b>14.</b> <i>A</i>	A decrease in Eart	h's biodiversity ma	y affect people's die	ets.		
	Preserving diverse n the future.	plant species may	lead to the discove	ry of new drugs		

## Biological Diversity and Conservation, continued

### **Reinforcement and Study Guide**

## Section 5.1 Vanishing Species, continued

In your textbook, read about the loss of biodiversity.

For each item in Column A, write the letter of the matching item in Column B.

Column A	Column B		
<b>16.</b> The number of members of a species is so low that there is a possibility of extinction.	<b>a.</b> passenger pigeon		
<b>17.</b> This animal is an example of an endangered species.	<b>b.</b> threatened species		
<b>18.</b> The population of a species begins declining rapidly.	<b>c.</b> black rhinoceros		
<b>19.</b> This animal is an example of an extinct species.	<b>d.</b> African elephant		
<b>20.</b> All members of a species have died, so the species no longer exists.	<b>e.</b> extinct species		
<b>21.</b> This animal is an example of a threatened species.	<b>f.</b> endangered 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
<b>22.</b> Animals have no migratory route.			
<b>23.</b> A rain forest is burned.			
<b>24.</b> A highway divides a forest.			
<b>25.</b> Acid precipitation leaches nutrients from the soil.			
<b>26.</b> Detergents and other chemicals pollute bodies of water.			
<b>27.</b> Coral is mined for building materials.			
<b>28.</b> The reduction of the ozone layer causes more ultraviolet radiation to reach Earth's surface.			

#### **Reinforcement and Study Guide**

Class

#### Section 5.1 Vanishing Species, continued

#### Circle the letter of the choice that best completes the statement.

29.	When	species	lose	their	habitats,	they	may
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**a.** lack food.

**c.** be in danger of becoming extinct.

**b.** lack shelter.

**d.** all of the above.

**30.** Habitat fragmentation often leads to

**a.** increased species diversity within an area.

**c.** decreased species diversity within an area.

**b.** larger habitats for species.

**d.** an increased food supply for species.

**31.** Different conditions along the boundaries of an ecosystem are called

**a.** habitat fragmentation.

**b.** edge 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 caused by

**a.** burning fossil fuels.

**b.** acid precipitation.

**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 an area, their populations may grow exponentially because the species

**a.** are large.

**b.** are predators.

**c.** lack competitors and predators.

**d.** are small.

**37.** The African elephant population was greatly reduced between 1970 and 1990 due to

**a.** habitat degradation.

**b.** excessive hunting.

c. habitat loss.

**d.** pollution.