Bio.12-Q1W3-Qs.Bank

d. stop hunting

a. habitat fragmentation

b. global warming problems

-	Choice c choice that best completes the statement or ans	wer	s the question.
1	Which country would you expect to have the g	reat	est biodiversity?
 1.	a. Ecuador		England
	b. United States		Norway
 2.	than others. The largest island will probably of	fer t	
	a. biodiversity.		Both A and B
	b. niches.		Neither A nor B
 3.	species called?		rops to a level so low that extinction is possible, what is the
	a. Endangered		Degraded
	b. Threatened	d.	
 4.	Which of the following best describes the resu		
	a. Increased biodiversity		No effect on biodiversity
	b. Decreased biodiversity		Decreased water and land pollution
 5.	the following is most likely to cause an increas	e in	
	a. Habitat fragmentation		Habitat corridors
	b. Acid precipitation		All of the above
 6.	Which of the following forms of pollutants is i	espo	
	a. Chlorofluorocarbons	c.	
	b. Sulfur dioxide	d.	Salt
 7.	Which of the following most seeks to preserve		itats?
	a. The U.S. Endangered Species Act of 1973		
	b. The Convention of International Trade in I	Enda	angered Species
	c. Reintroduction programs		
	d. Establishment of national parks		
 8.	Strips of land that allow the organisms to migra		
	a. habitat corridors.		ecosystem bridges.
	b. habitat fragments.	d.	environmental pathways.
 9.	The major threat to biodiversity is		
	a. habitat fragmentation	c.	habitat degradation
	b. habitat loss	d.	exotic species
 10.	The major focus of conservation biology is	<u></u> .	
	a. to prevent cruelty to animals		
	b. to keep animals in zoos for people to see		
	c. protect species from extinction		

Table 5-1 shows the population sizes for 5 different species in four different areas.

c. habitat degradation d. exotic species

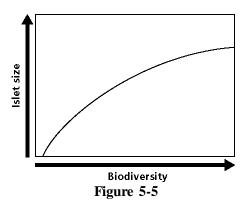
11. Acid rain changes the pH of soil, killing some trees. This is an example of _____.

Area	Species U	Species V	Species W	Species X	Species Y	Species Z
A	3	7	2	2	2	4
В	0	6	8	0	6	6
С	0	0	2	0	0	2
D	4	3	11	1	6	0

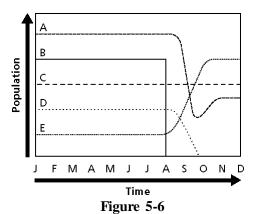
Table 5-1

1,	2	From Table 5.1 publish annoing has the highest account							
1	۷.	From Table 5-1, which species has the highest average a. Species W	ge population size? Species Y						
		•	Species Z						
1.	2	•	the world to find these organisms, which species most						
1.	3.	likely faces the greatest chance of extinction?	the world to find these organisms, which species most						
		· · · · · · · · · · · · · · · · · · ·	Species Y						
		•	Species Z						
1,	4.		•						
*	••		Area C						
			Area D						
1:	5.		d geology, which one would probably have the smallest						
			Area C						
		b. Area B d. A	Area D						
1	6.								
1	0.		e to habitat degradation						
			overcollection						
1	7.								
1	<i>,</i> .	· · · · · · · · · · · · · · · · · · ·	habitat corridors						
		-	habitat fragments						
1	8.	Island A has an area of 30 square kilometers. Island I near each other. Which of the following statements is	B has an area of 400 square kilometers. The islands are s most likely to be true?						
		b. Island A has less biodiversity and a higher perce							
		c. Island A has greater biodiversity and a lower per							
1.	0	d. Island A has less biodiversity and a lower percen	-						
1	9.	herbivores; and migratory animals and non-migratory	dators and small predators; large herbivores and small y animals. The two animals most likely to suffer the most						
		from habitat fragmentation are the a. large predators and migratory animals							
		b. large herbivores and large predators							
		c. non-migratory animals and small herbivores							
		d. migratory animals and large herbivores							

 20.	Which one of the following is NOT a cause of	acid	precipitation?
	a. sulfur dioxide from burning coal		
	b. nitrogen oxides from car exhaust		
	c. destruction of the ozone layer		
 21.	Carnivorous birds that fed on organisms expos	ed to	o this chemical produced fragile eggs. The chemical is
	a. CFC	c.	DDT
	b. DNA	d.	nitrogen oxide
 22.	Which is NOT true of the U.S. Endangered Sp	ecies	s Act?
	a. It was responsible for the creation of Yello		one National Park.
	b. President Nixon signed it into law in 1973		
	c. It was partially responsible for the recover	y of	some threatened species.
22	d. Other countries have created similar laws.		
 23.			money to buy a strip of land to connect Protected Area A
	to Natural Park Area B. This strip would most a. as a road for tourists		to fragment the habitat
	b. as a wildlife corridor		to slow ozone destruction
24.	Which of the following species is extinct?		
 	a. American bald eagle	c.	passenger pigeon
	b. bison (buffalo)	d.	giant panda
 25.	Water and air pollution are examples of		
	a. habitat fragmentation	c.	edge effect
	b. habitat degradation	d.	sustainable use
 26.	Which country has the fewest species of mami	nals'	?
	a. Canada		
	b. United Statesc. Mexico		
27		rdor	of least to most higherinal diversity, they would be
 27.	if the communities in Figure 5-4 were put in o	ruer	of least to most biological diversity, they would be
	a I a A I I		
	A B		
	White will have the second of		
	, in Milling Milling		
	C D		
	Figure 5-4		
	a. ABCD	c.	DBCA
	b. CADB	d.	BDAC



- 28. What does the graph in Figure 5-5 tell you?
 - a. the farther from land, the more biodiversity
 - b. the larger the islet, the more biodiversity
 - c. islet size and biodiversity are not related
 - d. biodiversity decreases with islet size
- 29. Using the graph in Figure 5-5, extrapolate what would happen to biodiversity on a large island or continent.
 - a. biodiveristy would increase greatly
 - b. biodiversity would decrease greatly
 - c. biodiveristy would first increase, then decrease
 - d. biodiversity would remain constant
- 30. Using the information from the graph in Figure 5-5, predict what would happen to biodiversity if the ocean level increased.
 - a. it would increase
 - b. it would remain the same
- c. it would decrease
- d. it would disappear



- 31. What happened to species B in the graph shown in Figure 5-6?
 - a. it increased in biodiversity
- c. it became carnivorous
- b. it decreased in population slightly
- d. it became extinct
- 32. What effect did the loss of species B have on species A and D in Figure 5-6?
 - a. it caused the populations of A and D to decrease
 - b. it caused the populations of A and D to increase
 - c. it caused the populations of A and D to become extinct
 - I. it had no effect on the populations of A and D
- 33. Suggest what happened to species E in Figure 5-6.
 - a. it became extinct

c. it stopped eating species B

b. it replaced species B in its niche

d. it started eating species A

Table:

Populations and Extinctions

- o P								
Island	Area (km²)	Initial No. of Species	Extinctions					
A	850,000	175	25					
В	300,000	140	35					
С	90,000	80	50					

		rigure 5-7
	34.	What is the percent loss of species on island A, according to Figure 5-7?
		a. 12.5% c. 25% b. 14% d. 30%
	35.	What factor, according to the data in Figure 5-7, has the greatest impact on species loss?
	33.	a. the original number of species c. the area of the island
		b. the distance from the mainland d. the climate
	36.	Using Figure 5-7, predict what the approximate species loss would be on an island that is 500,000 km ² in size a. less than 25 c. between 35 and 50
		b. between 25 and 35 d. more than 50
		True/False hether the statement is true or false. If false, change the identified word or phrase to make the statement true.
	37.	Ecologists work with local people to find ways to protect wildlife habitats.
	38.	The number of species in an area is a measure of biodiversity.
	39.	Temperate deciduous forests have more biodiversity than any other terrestrial biome.
	40.	A conservation biologist's main concern is protecting biodiversity.
	41.	Habitat <u>fragmentation</u> is the biggest threat to biodiversity.
	42.	The pesticide CFC damaged the eggs of the American bald eagle.
	43.	When roads cut across natural areas, this produces habitat <u>fragmentation</u> .
	44.	A plot of protected land may have different conditions at the edges than in the middle. This is known as <u>corridor</u> effect
	45.	A species that is brought to a place where it never lived is considered a(n) <u>native</u> species.
Comp		on each statement.
	46.	The amount of biological diversity in an area is called
	47.	is a branch of biology that focuses on the preservation of biodiversity.
	48.	The number of in an area is a measure of biodiversity.

49.	The biggest threat to biodiversity is						
50.	Mexico has more biodiversity than the United States because it is						
	The actions of zebra mussels and sea lamprey in the Great Lakes are examples of problems caused by species.						
52.	programs seek to establish species in areas where they once lived.						
53.	Allowing local people to collect fallen branches from trees in a protected forest is an example of the philosophy of use.						
54.	The U.S Act of 1973 gave legal protection to threatened and endangered species						
55.	The use of CFCs can destroy the in the upper atmosphere.						

Bio.12-Q1W3-Qs.Bank

Answer Section

MULTIPLE CHOICE

1. ANS: A

Biodiversity tends to increase as one moves toward the equator. The ecosystem that houses the greatest amount of biodiversity is the tropical rain forest.

PTS: 1

2. ANS: C

Larger islands contain more biodiversity because they offer more opportunities for unique niches to develop.

PTS: 1

3. ANS: A

A species is classified as endangered when its population becomes so low that extinction is possible.

PTS: 1

4. ANS: B

When a habitat is fragmented, it is split into smaller islands. This results in a loss of biodiversity because smaller islands support fewer species.

PTS: 1

5. ANS: A

When a habitat is fragmented, it is split into smaller islands. This results in a loss of biodiversity because smaller islands support fewer species.

PTS: 1

6. ANS: B

The burning of coal releases sulfur dioxide, which results in acid precipitation. This acidic water leaches essential nutrients from the soil, decreasing its fertility.

PTS: 1

7. ANS: D

In order to protect entire ecosystems, governments create national parks, such as Yellowstone National Park.

OBJ: 5-2

OBJ: 5-3

OBJ: 5-2

PTS: 1

PTS: 1

8. ANS: A

Habitat corridors connect protected areas in order to facilitate migration of organisms between them.

9.	ANS:	В	PTS:	1	DIF:	В
	NAT:	C4 C5 C6				
10.	ANS:	C	PTS:	1	DIF:	В
	NAT:	C4 C5 C6				
11.	ANS:	C	PTS:	1	DIF:	В

NAT: C4 | C5 | C6 12. ANS: A PTS: 1 DIF: A OBJ: 5-3

	NIAT.	CA + C5 + C6						
		C4 C5 C6 B	PTS:	1	DIF:	A	OBJ:	5-3
		C4 C5 C6						
14.		A	PTS:	1	DIF:	В	OBJ:	5-3
		C4 C5 C6						
15.		C		1	DIF:	В	OBJ:	5-3
1.6		C4 C5 C6 D		1	DIF:	D	OBJ:	5.2
		C4 C5 C6	ris.	1	DIF.	D	ODJ.	3-3
		В	PTS:	1	DIF:	В	OBJ:	5-3
		C4 C5 C6						
18.		В	PTS:	1	DIF:	В	OBJ:	5-1
		C4 C5 C6						
19.		A	PTS:	1	DIF:	В	OBJ:	5-2
20		C4 C5 C6 C	DTC.	1	DIF:	D	ODI	5.2
20.		C4 C5 C6		1	DIF.	D	OBJ:	3-2
21.		C		1	DIF:	В	OBJ:	5-2
		C4 C5 C6						
22.		A	PTS:	1	DIF:	В	OBJ:	5-3
		C4 C5 C6				_		
23.		B	PTS:	1	DIF:	В	OBJ:	5-3
24		C4 C5 C6 C	DTC.	1	DIF:	R	OBJ:	5.2
24.		C4 C5 C6		1	Dir.	D	ODJ.	3-2
25.		В		1	DIF:	В	OBJ:	5-2
		C4 C5 C6						
		A	PTS:	1	DIF:	В	OBJ:	5-2
27		C4 C5 C6	DEC	1	DIE	D	ODI	7 1
27.		D C4 C5 C6	PIS:	1	DIF:	В	OBJ:	5-1
28		B	PTS.	1	DIF:	A	OBJ:	5-1
20.		C4 C5 C6		•	211.	11	OBU.	<i>J</i> 1
29.				1	DIF:	A	OBJ:	5-1
		C4 C5 C6						
30.		C	PTS:	1	DIF:	A	OBJ:	5-2
21		C4 C5 C6 D	DTC.	1	DIE	A	OBJ:	5.2
31.		C4 C5 C6	ris.	1	DIF.	A	ODJ.	3-2
32.		A	PTS:	1	DIF:	A	OBJ:	5-2
		C4 C5 C6						-
33.			PTS:	1	DIF:	A	OBJ:	5-2
		C4 C5 C6						
34.		\mathbf{B}	PTS:	1	DIF:	A	OBJ:	5-2
35		C4 C5 C6 C	DTC.	1	DIF:	Δ	OBJ:	5_1
55.		C4 C5 C6	110.	1	DII'.	11	ODJ.	J-1
36.			PTS:	1	DIF:	A	OBJ:	5-2
		C4 C5 C6						

MODIFIED TRUE/FALSE

37.	ANS:	F, Conservation biologists						
	PTS:	1	DIF:	В	OBJ:	5-3	NAT:	C4 C5 C6
38.	ANS:				PTS:	1	DIF:	В
		5-1						
39.	ANS:	F, Tropical rai	in forest	ts				
	PTS:		DIF:	В		5-1		C4 C5 C6
40.	ANS:				PTS:	1	DIF:	В
	OBJ:		NAT:	C4 C5 C6				
41.	ANS:	F, loss						
	PTS:	1	DIF:	В	OBJ:	5-2	NAT:	C4 C5 C6
42.	ANS:	F, DDT						
	PTS:	1	DIF:	В	OBJ:	5-2	NAT:	C4 C5 C6
43.	ANS:			_	PTS:		DIF:	
	OBJ:	5-2	NAT:	C4 C5 C6				
44.	ANS:	F, edge						
	PTS:	1	DIF:	R	ORI:	5-3	NΔT·	C4 C5 C6
45		F, exotic	DII.	Ь	ODJ.	3-3	11/11.	C4 C5 C0
	12.0.	1,0110010						
	PTS:	1	DIF:	В	OBJ:	5-2	NAT:	C4 C5 C6
COMPLE	WIN ON							
COMPLE	TION							
46.	ANS:	biodiversity						
	DTC.	1	DIF:	D	OD I:	5-1	NAT.	C4 C5 C6
47		Conservation		Ъ	ODJ.	J-1	MAI.	C4 C5 C0
٦/.	mis.	Conscivation	olology					
	PTS:	1	DIF:	В	OBJ:	5-3	NAT:	C4 C5 C6
48.	ANS:	species						
	ртς.	1	DIE	В	ORI:	5-1	NAT.	C4 C5 C6
49		habitat loss	DII.	Ь	ODJ.	<i>J</i> -1	11/11.	C4 C5 C0
.,.	1110.	1101141 1005						
	PTS:	1	DIF:	В	OBJ:	5-2	NAT:	C4 C5 C6
50.	ANS:							
	warme							
	cioser	to the equator						
	PTS:	1	DIF:	В	OBJ:	5-1	NAT:	C4 C5 C6
51.	ANS:					- -		

exotic introduced

52.	PTS: ANS:	1 Reintroduction	DIF:	В	OBJ:	5-2	NAT:	C4 C5 C6
53.	PTS: ANS:	1 sustainable	DIF:	В	OBJ:	5-3	NAT:	C4 C5 C6
54.	PTS: ANS:	1 Endangered S	DIF:	В	OBJ:	5-4	NAT:	C4 C5 C6
55.	PTS: ANS:	1 ozone layer	DIF:	В	OBJ:	5-3	NAT:	C4 C5 C6
	PTS:	1	DIF:	В	OBJ:	5-2	NAT:	C4 C5 C6