Bio.12-Q1W3-H.W

Multiple Choice

Identify the choice that best completes the statement or answers the question.

 1.	Which country would you expect to have the grant a. Ecuadorb. United States	c.	est biodiversity? England Norway
 2.	You are studying a chain of islands in the Pacifi than others. The largest island will probably off	ic O er ti	cean. They all have similar climates, but some are larger he most —
	a. biodiversity.b. niches.		Both A and B Neither A nor B
 3.	Cyclosporine, an antirejection drug given to peo a. willow bark. b. penicillium mold.	c.	with organ transplants, was originally isolated from — a soil fungus. rosy periwinkle.
 4.	-		ops to a level so low that extinction is possible, what is the
	a. Endangeredb. Threatened	c. d.	Degraded Minimal
 5.	Which of the following best describes the resulta. Increased biodiversityb. Decreased biodiversity	c.	habitat fragmentation? No effect on biodiversity Decreased water and land pollution
 6.	•	inda in	aries of an ecosystem are called an edge effect. Which of
	b. Acid precipitation	d.	All of the above
 7.	Which of the following forms of pollutants is re a. Chlorofluorocarbons	espo c.	DDT
0	b. Sulfur dioxide		Salt
 8.	Which of the following most seeks to preserve l a. The U.S. Endangered Species Act of 1973	naoi	tats?
	b. The Convention of International Trade in Ec. Reintroduction programsd. Establishment of national parks	nda	ngered Species
 9.	Which of the following species was NOT saved	fro	m extinction by being kept in captivity?
	a. Gingko treeb. California condor	c.	Brown pelican
10.	The major threat to biodiversity is	d.	Black-footed ferret
 101	a. habitat fragmentation	c.	habitat degradation
11	b. habitat loss	d.	exotic species
 11.	The major focus of conservation biology isa. to prevent cruelty to animals	·	
	b. to keep animals in zoos for people to see		
	c. protect species from extinctiond. stop hunting		
 12.	Acid rain changes the pH of soil, killing some th	rees	. This is an example of
	a. habitat fragmentation	c.	habitat degradation

b. global warming problems d. exotic species

Area	Species U	Species V	Species W	Species X	Species Y	Species Z
А	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						

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

13. From Table 5-1, which species has the highest average population size?

a. Species W c. Species Y

d. Species Z b. Species X

14. If the four areas in Table 5-1 were the only places in the world to find these organisms, which species most likely faces the greatest chance of extinction?

a.	Species U	с.	Species Y
1	o · v	1	a · 7

b. Species X d. Species Z

15. Which area in Table 5-1 has the greatest biodiversity?

- c. Area C a. Area A b. Area B
 - d. Area D

16. If all four areas in Table 5-1 had identical climate and geology, which one would probably have the smallest area?

a.	Area A	c.	Area C
b.	Area B	d.	Area D

For many years orchid collectors searched Exotic Islands for the beautiful Kimmarie Orchid, which is found no place else in the world. After they found the orchid, they brought it back to their homes. In the last couple of years the Kimmarie Orchid has not been found on the island. As a result, hobbyists are now sending the Kimmarie Orchid to be replanted on the island.

- 17. The Kimmarie Orchid became extinct in the wild due to
 - a. habitat loss c. habitat degradation
 - b. exotics d. overcollection

18. The hobbyists are trying to correct the Kimmarie Orchid problem they caused by using _____.

- c. habitat corridors
- b. a reintroduction program d. habitat fragments
- 19. Island A has an area of 30 square kilometers. Island B has an area of 400 square kilometers. The islands are near each other. Which of the following statements is most likely to be true?
 - a. Island A has greater biodiversity and a higher percentage of edge effect than Island B.
 - b. Island A has less biodiversity and a higher percentage of edge effect than Island B.
 - c. Island A has greater biodiversity and a lower percentage of edge effect than Island B.
 - d. Island A has less biodiversity and a lower percentage of edge effect than Island B.
- 20. Consider the following pairs of organisms: large predators and small predators; large herbivores and small herbivores; and migratory animals and non-migratory animals. The two animals most likely to suffer the most from habitat fragmentation are the ____

a. large predators and migratory animals

a. exotic species

- b. large herbivores and large predators
- c. non-migratory animals and small herbivores
- d. migratory animals and large herbivores
- _____ 21. 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

____ 22. Carnivorous birds that fed on organisms exposed to this chemical produced fragile eggs. The chemical is

a. CFC

- c. DDT
- b. DNA d. nitrogen oxide
- _____ 23. Which is NOT true of the U.S. Endangered Species Act?
 - a. It was responsible for the creation of Yellowstone National Park.
 - b. President Nixon signed it into law in 1973.
 - c. It was partially responsible for the recovery of some threatened species.
 - d. Other countries have created similar laws.

24. A conservation biology organization wants to raise money to buy a strip of land to connect Protected Area A to Natural Park Area B. This strip would most likely serve _____.

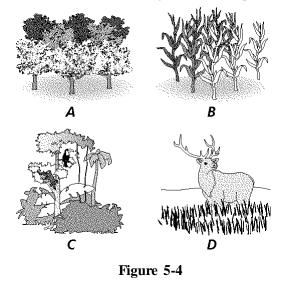
c.

c. to fragment the habitat

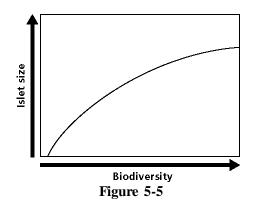
passenger pigeon

to slow ozone destruction

- a. as a road for tourists
- b. as a wildlife corridor d.
- ____ 25. Which of the following species is extinct?
 - a. American bald eagle
 - b. bison (buffalo) d. giant panda
- _____ 26. Water and air pollution are examples of _____
 - a. habitat fragmentation c. edge effect
 - b. habitat degradation d. sustainable use
- ____ 27. If the communities in Figure 5-4 were put in order of least to most biological diversity, they would be _____.

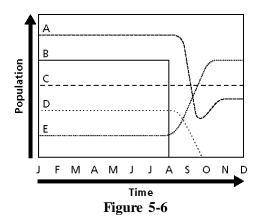


a.	ABCD	с.	DBCA
b.	CADB	d.	BDAC



- 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
 - d. 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 Extinction	S

	Initial No.				
Island	Area (km ²)	of Species	Extinctions		
A	850,000	175	25		
B 300,000		140	35		
С	90,000	80	50		
Figure 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?
 - 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 $500,000 \text{ km}^2$ in size.
 - a. less than 25 c. between 35 and 50
 - b. between 25 and 35 d. more than 50

Modified True/False

Indicate whether the statement is true or false.

- _____ 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 <u>biodiversity</u>. ______
- 39. <u>Temperate deciduous forests</u> have more biodiversity than any other terrestrial biome.
- 40. A conservation biologist's main concern is protecting biodiversity.
- 41. Habitat fragmentation is the biggest threat to biodiversity.
- 42. The pesticide <u>CFC</u> 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.