Bio.12-Q1W3-Test 1

Multiple Choice

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

1	W7L:-h		at his dimension
 1.	Which country would you expect to have the gr		•
	a. Ecuador		England
	b. United States	d.	Norway
 2.	Cyclosporine, an antirejection drug given to pe	ople	with organ transplants, was originally isolated from
	a. willow bark.	-	a soil fungus.
	b. penicillium mold.		rosy periwinkle.
3.	-		ries of an ecosystem are called an edge effect. Which of
 5.	the following is most likely to cause an increase		
	a. Habitat fragmentation		Habitat corridors
	b. Acid precipitation	d.	All of the above
 4.	Strips of land that allow the organisms to migra		
	a. habitat corridors.	c.	ecosystem bridges.
	b. habitat fragments.	d.	environmental pathways.
 5.	Which of the following species was NOT saved	l fro	m extinction by being kept in captivity?
	a. Gingko tree	c.	Brown pelican
	b. California condor	d.	Black-footed ferret
6.	The major threat to biodiversity is		
	a. habitat fragmentation	c.	habitat degradation
	b. habitat loss	d.	exotic species
7.	The major focus of conservation biology is		-
 	a. to prevent cruelty to animals		
	b. to keep animals in zoos for people to see		
	b. to keep animals in 2008 for people to see		

- c. protect species from extinction
- d. stop hunting

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

Species U	Species V	Species W	Species X	Species Y	Species Z
3	7	2	2	2	4
0	6	8	0	6	6
0	0	2	0	0	2
4	3	11	1	6	0
	Species U 3 0 0 4	Species U Species V 3 7 0 6 0 0 4 3	Species U Species V Species W 3 7 2 0 6 8 0 0 2 4 3 11	Species U Species V Species W Species X 3 7 2 2 0 6 8 0 0 0 2 0 4 3 11 1	Species U Species V Species W Species X Species Y 3 7 2 2 2 0 6 8 0 6 0 0 2 0 0 4 3 11 1 6

Table 5-1

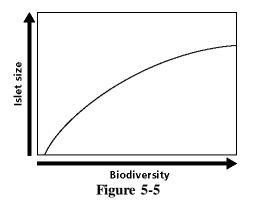
8. From Table 5-1, which species has the highest average population size?

- a. Species W c. Species Y
- b. Species X d. Species Z
- 9. 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
b.	Species X	d.	Species Z

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.

- 10. The Kimmarie Orchid became extinct in the wild due to _____.
 - a. habitat loss c. habitat degradation
 - b. exotics d. overcollection
 - 11. 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
- 12. Salvinia molesta, a floating aquatic plant, first entered Lake Naivasha in Kenya when a person's fish ponds flooded. The plant quickly grew, changing the habitat of parts of the lake. This is an example of a problem due to .
 - a. reintroduction programs
 - b. exotic species d. edge effect
- 13. 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.
- 14. 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
 - a. as a road for tourists
 - b. as a wildlife corridor
 - 15. Which of the following species is extinct?
 - a. American bald eagle
 - b. bison (buffalo)
 - 16. Which country has the fewest species of mammals?
 - a. Canada
 - b. United States
 - c. Mexico



- 17. What does the graph in Figure 5-5 tell you?
 - a. the farther from land, the more biodiversity

passenger pigeon

c. to fragment the habitat

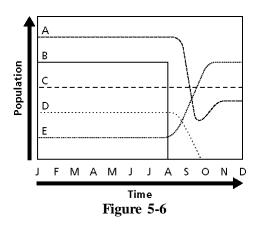
d. to slow ozone destruction

c. habitat fragmentation

- c.
- d. giant panda

- b. the larger the islet, the more biodiversity
- islet size and biodiversity are not related c.
- d. biodiversity decreases with islet size
- 18. Using the graph in Figure 5-5, extrapolate what would happen to biodiversity on a large island or continent.
 - biodiveristy would increase greatly a.
 - biodiversity would decrease greatly b.
 - biodiveristy would first increase, then decrease c.
 - d. biodiversity would remain constant
- 19. 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



- 20. What happened to species B in the graph shown in Figure 5-6?
 - it increased in biodiversity c. it became carnivorous
 - b. it decreased in population slightly d. it became extinct
- What effect did the loss of species B have on species A and D in Figure 5-6? 21.
 - it caused the populations of A and D to decrease a.
 - it caused the populations of A and D to increase b.
 - c. it caused the populations of A and D to become extinct
 - d. it had no effect on the populations of A and D
- 22. Suggest what happened to species E in Figure 5-6.
 - a. it became extinct c. it stopped eating species B
 - it replaced species B in its niche b. d. it started eating species A

Table:

a.

Populations and Extinctions

Island	Area (km ²)	Initial No. of Species	Extinctions		
А	850,000	175	25		
В	300,000	140	35		
С	90,000	80	50		
Figure 5-7					

- 23. What is the percent loss of species on island A, according to Figure 5-7?
 - 12.5% 25% a. c. b. 14% d. 30%

- 24. 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 25. Using Figure 5-7, predict what the approximate species loss would be on an island that is 500,000 km² in size.
 - a. less than 25
 - b. between 25 and 35

- c. between 35 and 50
- d. more than 50

Modified True/False

Indicate whether the statement is true or false. If false, change the identified word or phrase to make the statement true.

- 26. The number of species in an area is a measure of biodiversity.
- 27. Temperate deciduous forests have more biodiversity than any other terrestrial biome.
- 28. Habitat fragmentation is the biggest threat to biodiversity.
- 29. A plot of protected land may have different conditions at the edges than in the middle. This is known as corridor effect.
- 30. A species that is brought to a place where it never lived is considered a(n) native species.