Name:	ш	Lec	F	Class:

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CHAPTER 4 REVIEV

Multiple Choice

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

1. What word describes the mammals, fish, birds, and plants that live in an environment?

abiotic

c. the biosphere

the population b.

d. biotic

2. A community is several species of animals interacting, while a population is

members of one species in an area.

c. the nonliving elements of a habitat.

the biotic and abiotic elements of an area. d. b.

a single organism.

3. Which of the following is abiotic?

a gar an alligator

b.

grass

water

4. Organisms that can make their own food from sunlight are called

decomposers.

c. producers.

consumers.

d. carnivores.

5. Grass is eaten by a prairie dog. The prairie dog is eaten by a coyote. This is an example of

an abiotic element.

c. a herbivore.

an omnivore. b.

d. a food chain.

6. One food web arrow goes from a prairie dog to a coyote, showing that

the coyote is bigger.

c. the prairie dog eats the coyote.

the coyote eats the prairie dog.

the prairie dog is a producer.

7. Without wolves, Yellowstone Parkwould have

too many elk.

too many rabbits.

too much grass.

too many cows.

8. A bird eats a worm. Who is the predator?

the worm a.

both the bird and the worm

the bird

neither the bird nor the worm d.

9. Rocks, temperature, and water are what part of the environment?

biotic

population

abiotic b.

living d.

10. What do several different populations living together make?

a biosphere

a community

an organism b.

an ecosystem

11. Which is an example of an abiotic element changing an area?

introducing a new type of grass

c. two species of birds competing

water flooding the area

algae growing on crabgrass

Grass that gains energy from the sun is an example of a

consumer.

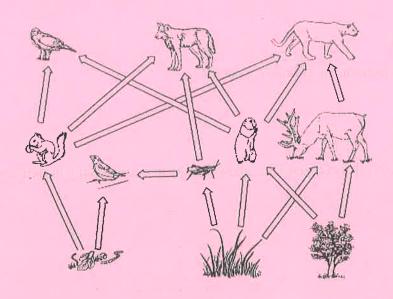
decomposer. c.

b. parasite.

producer.

0	1.2		The second secon				
_	13.	3. A diagram with arrows showing energy flow from	grass, to a rabbit, to a fox is a food chain.				
		a. an energy pyramid.b. a food web.c.d.	a population chart.				
	14.	, 1	ecause they show				
		a. which animal is bigger.b. which animals are related.					
		b. which animals are related.c. how energy goes to the animal that is eating.					
		d. how energy goes to the animal that is eaten.					
D							
5	15.		tion that three male egrets would all belong in together?				
		a. individual organismb. populationd.	community ecosystem				
		o. population	ecosystem				
	16.		crabs, and cordgrass, but not the water or rocks in a salt				
		marsh, what level of organization would they be stu					
		a. individual organism c.	community				
_		b. population d.	ecosystem				
<u>D</u>	17.	. Herbivores, carnivores, and omnivores are all					
		a. decomposers. c.	predators.				
_		b. producers. d.	consumers.				
C	18.	. Animals that eat a variety of meats, fruits, and vege	etables are				
		a. producers.	omnivores.				
		b. carnivores. d.	herbivores.				
C	19.	. A scientist studying the way egrets, herons, and cra	bs interact, who is not interested in abiotic factors such as				
		the rocks, water, and temperature, is studying what					
		a. population c.	community				
		b. ecosystem d.	biosphere				
R	20.	. Rocks, temperature, and water are what kind of thin	195?				
		a. biotic c.	population				
		b. abiotic d.	living				
C	21	. What level of organization comes after population?					
	21.	a. biosphere c.	community				
		b. organism d.	ecosystem				
D	0.0						
	22.		dagammagana				
		a. consumers c. b. parasites d.	decomposers producers				
D							
5	23.	What happened to other living things when the wolves no longer lived in Yellowstone?					
		a. They were better off.	They died.				
		b. They were out of balance. d.	They were not changed.				
	24.	. If you made a chart showing all the organisms living	g in the local lake, with arrows drawn between the various				
		organisms showing who ate what, what kind of char	rt would you have made?				
		a. energy pyramid c.	food web				
		h food chain	ecosystem chart				

Use the image below to answer the following questions.



- A 25. The arrows on the food web show that
 - a. prairie dogs eat grass.
 - b. deer eat prairie dogs.

- c. squirrels eat grass.
- d. squirrels eat coyotes.
- D 26. Three organisms on the food web have arrows pointing away from them and no arrows pointing toward them. They are
 - a. omnivores.

c. decomposers.

b. herbivores.

- d. producers.
- C 27. Three organisms on the food web have arrows pointing toward them but no arrows pointing away from them.

 This is because
 - a. they make their own food.
- c. nothing shown eats them.
- b. they give energy to others.
- d. they need no energy.
- 28. What does the arrow between the grasshopper and the coyote represent?
 - a. energy flowing from producers to consumers
 - b. energy flowing from consumers to producers
 - c. energy flowing from the coyote to the grasshopper
 - d. energy flowing from the grasshopper to the coyote
- A 29. How much energy does a secondary consumer recieve if the producer starts of with 3000 units of energy?
 - a. 30

c. 300

b. 3

d. 30,000

Essay

- 30. Part 1.Explain the two purposes of the shape of the energy pyramid.
 - Part 2 If the producers remained on the bottom would the explanation still work if the pyramid were upside down (narrow part on bottom)?

There are the fewer animals as you go up the energy pyramid.
There is less energy available as you go up the energy pyramid.

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2 23.	Which of the following is an example of a predator adaptation?
7 23.	a. a porcupine's needles
	b. a shark's powerful jaws
	c. a frog's bright colors
	d. a plant's poisonous chemicals
-	
24.	Which of the following is a biotic factor in the prairie ecosystem?
	a. water
	b. sunlight
	c. soil
	d. grass
25.	The behaviors and physical characteristics of species that allow them to live successfully in their environment
	are called
	a. habitats.
	b. limiting factors.
	c. biotic factors.
	d. adaptations.
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26	Fynlain why decomposers are essential to life on Forth. Sympost in 2 to 2
20.	Explain why decomposers are essential to life on Earth. Support in 2 to 3 sentances.
	They break down dead things and return nutrients to the soil.
	The state of the s
	to the soil.
	A Company of the Comp
13	
00	
27.	Below describe the conditions of YOUR ECOSYSTEM and then describe at LEAST three special adaptations
	that may help an organism survive in it.
9	
4 15	
9	
2	