Name:		Class: _		Date:	ID: A		
Biolog	gy (Chapter 2 Test: Principles of	Ecology				
True/F		nether the statement is true or false.					
	1.	Living things are formed from carb cycle that really affects humans.	on-containing n	nolecules, so the carbon cycle	is the only biogeochemical		
-	2.	Some plants have bacteria living in nodules on their roots that "fix" atmospheric nitrogen, converting it to a form of nitrogen the plant can use. Because living organisms (bacteria) are involved in the process, nitroge availability is a biotic factor for the plant.					
	3.	The biotic factors that affect an organism include other species in that organism's community.					
	4.	The biogeochemical cycles and the flow of energy through an ecosystem are two ways to describe the same phenomenon.					
	5.	Large volumes of atmospheric dust, such as those from massive volcanic eruptions, do not affect food webs because they do not affect the energy output of the Sun, the ultimate source of energy for food webs.					
	6.	Even though you need sunlight for some body processes, such as synthesizing vitamin D, you have to eat a producer to use solar energy for respiration and movement.					
	7.	All the biogeochemical cycles involve both biotic and abiotic reservoirs.					
	8.	Adding nitrogen or phosphorus to an ecosystem would probably not affect organisms at high trophic levels because those nutrients are limiting factors to producers.					
Multip Identify		hoice choice that best completes the state	ment or answer	s the question.			
	9.	. Some birds are known as honey guides because they may be followed by humans to wild beehives. When humans take honey from the hives, the birds are able to feast on the honey and bees, too. This type of relationship can <i>best</i> be described as					
		a. parasitism	c.	mutualism			
		b. commensalism	d.	symbiosis	winding a Called		
	10.	Cougars are predators that often ea	t weakened or d	iseased animais. This is a desc	eription of the of		
		cougars. a. habitat	c.	niche			
		b. community	d.	none of these			

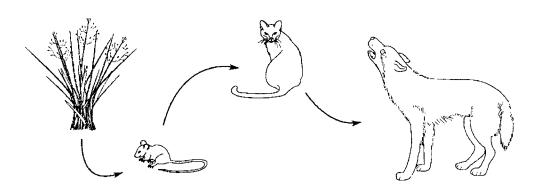


Figure 2-1

- 11. Referring to Figure 2-1, the coyotes would be considered _____.
 - a. herbivores

c. second-level consumers

b. third-level consumers

d. decomposers

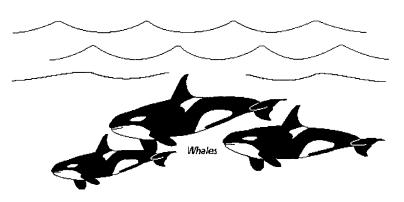


Figure 2-2

- 12. The group of animals in Figure 2-2 is an example of what?
 - a. community

c. population

b. ecosystem

d. biosphere

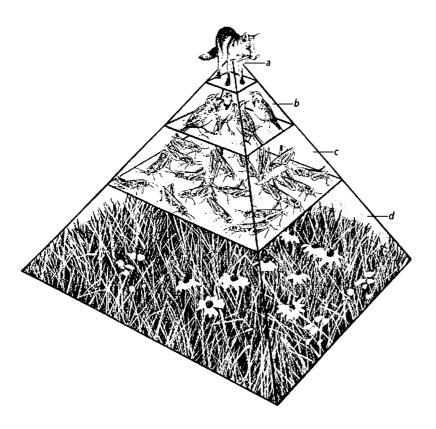


Figure 2-3

13. In the energy pyramid shown in Figure 2-3, which level has the smallest number of organisms?

a. fox

c. grasshoppers

b. birds

d. grass

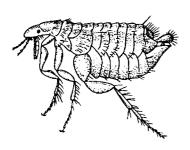
14. Which of the following is the ultimate source of energy for the pyramid in Figure 2-3?

a. grass

c. sunlight

b. heat

d. water



flea

Figure 2-4

15. The organism shown in Figure 2-4 is involved in which type of symbiosis?

a. mutualism

c. parasitism

b. commensalism

d. predation

	16.		inclu	ded in the description of a grasshopper's niche, but not in			
•		a description of its habitat?					
		a. continent where it lives	c.	plant species it eats			
		b. locations where it shelters	d.	temperatures it experiences			
	17.						
		a. commensal	c.	mutualistic			
		b. competitive	d.	parasitic			
1	18.	What is "soil type" to an earthworm?					
		a. abiotic factor	c.	biotic factor			
		b. biome	d.	carbon source			
19.	19.	Which of the following nutrients has <i>only</i> a short-term biogeochemical cycle?					
		a. carbon	c.	oxygen			
		b. nitrogen	d.	phosphorus			
	20.	Which process describes nitrogen fixation?					
		a. animals eat plants containing nitrogen and					
		b. bacteria take nitrogen from the air and co					
		c. organisms die and are decomposed into a					
		d. plants take nitrogen from the air and store					
	21.	21. Your favorite plant is growing very slowly, and you would like to find some way to increase its a Which of the following should you try increasing first?					
		a. nitrogen	c.	sodium			
		b. oxygen	d.	calcium			
	22.	Which biogeochemical cycle is <i>least</i> dependent on biotic processes?					
\		a. carbon	c.	phosphorus			
		b. nitrogen	d.	water			
	23.	Some farmers use manure on their crop fields. How does this help the plants?					
		a. protects them from intense sunlight					
		b. keeps insects from eating the crops					
		c. increases soil nitrogen and phosphorus le					
		d. increases soil oxygen and carbon dioxide levels					
24.	24.	Which of the following allows the flow of energy through an ecosystem to happen?					
		a. abiotic factors	c.	evaporation			
		b. cycling of nutrients	d.	predation			
	25.	One of the nutrient cycles moves from an atmospheric gaseous form to the soil through both abiotic and					
		biotic processes, moves through the food web, then is returned to the soil or to the atmosphere. Which cycle fits this description?					
		a. carbon	c.	phosphorus			
		b. nitrogen	d.	water			

ID: A

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b. nitrogen