Name	Class	Date
CHAPTER 47		CHAPTER TES
The Biosphere		
Multiple Choice Choose	the letter of the answer that best con	npletes each statement.
The eastern coast of t     a. grasslands.     b. taiga.	he United States and most of Europe c. temperate deciduous d. coniferous forests.	
2. The tops of the trees a. canopy. b. liana	in a tropical rain forest form a dense as. c. ecosystem. d. photic zone	e.
to the selection of the contract of the contra	abiotic and biotic factors in an environme. c. biosphere. d. ecology	· ·
4. A climax community i a. temperature and ra b. latitude and climate	infall. c. major forms of anima	
<ul><li>5. In a marine biome, or the</li><li>a. intertidal zone.</li><li>b. deep-sea zone.</li></ul>	ganisms experience radical changes in c. neritic zone. d. open-sea zone.	their environment each day in
approximately	that reaches the Earth, the amount ut.0 percent. c. 5.0 percent. d. 1	used by living things is  0.0 percent.
7. The total mass of living a. pyramid of energy. b. pyramid of numbers	<del>-</del>	shown in a
a. an algal bloom occur     b. the concentration o     c. nitrogen compound		ant is that
9. Photosynthesis is an ea. the carbon cycle or b. the oxygen cycle or	dy. c. both the carbon and o	
<ul><li>10. The desert in the sout</li><li>a. hot and barren.</li><li>b. hot with sparse but</li></ul>	c. a seasonal desert.	· .
<ul><li>An abiotic factor that</li><li>a. light intensity.</li><li>b. dissolved oxygen.</li></ul>	varies less in marine biomes than in la c. temperature. d. availability of nutrient	
12. The neritic zone of the a. the open-sea and de b. intertidal and open-	eep-sea zones. c. intertidal and de	_

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2

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13. Among the following, the term that includes the others is a. salt marsh. b. lagoon. c. estuary. d. mangrove swamp. **14.** All nutrients move through the ecosystem in a. biogeochemical cycles. c. carbon cycles. b. water cycles. d. oxygen cycles. 15. The ecological succession that occurs in an area where there has been no previous living community begins with the a. formation of soil. c. growth of mosses. b. growth of lichens. d. breaking up of rock. 16. Any environment that has a characteristic climax community is a (an) a. biome. b. ecosystem. c. land biome. d. biosphere. 17. In the water cycle, precipitation must be immediately a. followed by condensation. c. preceded by condensation. b. followed by further precipitation. d. preceded by evaporation. 18. Marine biomes are divided into ecologically distinct zones depending on a. temperature and distance from shore. b. depth and distance from shore. c. the plant life present. d. the type of fish present. 19. Unlike matter, energy a. can be recycled. c. can be transferred. b. cannot be recycled. d. cannot be transferred. 20. In a series of trophic levels, the animals farthest from the producer usually a. have the most biomass. c. receive the most energy. b. are largest in number. d. receive the least energy. 21. In the nitrogen cycle, bacteria that live on the roots of legumes a. break down nitrogen compounds into free nitrogen. b. denitrify nitrogen compounds. c. change free nitrogen into plant proteins. d. change free nitrogen into nitrogen compounds. 22. On an abandoned farm in New England, succession usually begins with the growth of ecological a. weeds. b. small shrubs. c. grasses. d. poplar trees. 23. Among the following, the term that includes the others is a. steppes. b. velds. c. grasslands. d. pampas. 24. Two terms that are paired together correctly are a. taiga—mosses and lichens. c. temperate deciduous forest-pine trees. b. tundra—permafrost. d. grasslands-animals. 25. The series in which a large fish eats a small fish that has eaten algae is a a, food web. c. pyramid of numbers. b. food chain. d. pyramid of biomass.

CHAPTER 47 CHAPTER TEST A The Biosphere **Answer Sheet** 

Fill in the circle of the letter that has the same letter as the answer you have chosen in the chapter test.

- **(b) (d)**
- **© (d)**
- **b © d** 3
- **b ©**
- **b ©**
- **© (b)** (d)
- **b ©**
- **©**
- (a) **b (d)**
- (a) **© d** 10
- a **b** 11 **(d)**
- (a) **© a** 12
- (a) **(b)** (d) 13
- **© b** (d) 14
- (a) **© b** 15
- **© b** 16
- (a) **d b** 17
- (a) **© d** 18
- (a) **©**
- 19 **d**
- (a) **© b** 20
- (a) **b** (c) 21
- **a b (d)** 22
- (a) **b a** 23
- (a) **© (** 24
- (c) (a) **(d)** 25