| Name: _ | 140/11 | Class: | Date: | - 19 |
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| Chapte | r 42 Practice | | | . 1 |
| Multiple Identify th | | ompletes the statement or ar | nswers the question. | |
| 1 | a. photoperiod ofb. angle at whicec. amount of at | lar energy that any spot on to or duration of light. In the sun strikes the Earth. mosphere above the spot. atter and pollution in the att | he surface of the Earth receive | s is controlled by the |
| 2 | | the zone from 0 to 30 degre | ees north latitude are generally | from the |
| 3 | a. latitudeb. temperaturec. the degree that | the least effect on the amount at a slope is exposed to the if f recurring cloud cover | nt of incoming light that strikes | s an area? |
| 4. | The atmosphere at a. Antarctica b. Eastern North c. Northern Eur d. the western P e. Sahara Deser | n America ope acific | nning or "hole" in the ozone la | yer? |
| 5. | | s an even more potent ozone de | destroyer than CFCs? | • |
| 6. | How many ozone a. 0 b. 1 c. 2 d. 4 e. over 10,000 | molecules can be destroyed | by the chlorine released by on | e CFC? |
| 7. | a. an abnormal ofb. an Indian sumc. an unusually ofd. the process of | occurrence not predicted by | terns. | |

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| | 8. | When the burning of fossil-fuels in manufacturing plants gives off particulates and sulfur oxides, we have a. photochemical smog. b. industrial smog. c. a thermal inversion. d. both photochemical smog and a thermal inversion. e. both industrial smog and a thermal inversion. |
| | 9. | Which factor is NOT characteristic of a city primarily plagued by industrial smog? a. high concentration of sulfur oxides b. dependence on fossil fuel for manufacturing c. cold, wet winters d. dust, smoke, and soot are present e. high concentration of nitrogen oxides |
| | 10. | Which factor is NOT characteristic of a city primarily plagued by photochemical smog? a. high concentration of sulfur oxides b. high concentration of nitrogen oxides c. significant amounts of PANs d. large numbers of internal combustion engines e. warm climates |
| | 11. | Each of the following contributes to acid rain EXCEPT a. ozone. b. waste products from the burning of coal. c. nitrogen fertilizers. d. gasoline burning automobiles. e. gas burning power plants. |
| | 12. | Which acid is a severe air pollutant? a. carbonic acid b. nitric acid c. hydrofluoric acid d. hydrochloric acid e. boric acid |
| | 13. | What portion of the Earth's surface is covered by oceans? a. less than 10 percent b. more than 80 percent c. about 50 percent d. approximately 70 percent e. barely 20 percent |
| _ | 14. | Mountains produce a. rain shadows on the windward sides. b. precipitation on the leeward sides. c. deserts on the leeward sides. d. extensive grasslands on the windward sides. e. all of these |

| 15. | A wind system that influences large climatic regions and reverses direction seasonally, producing dry and wet seasons, is referred to as |
|---------|--|
| | a. a geothermal ecosystem. |
| | b. an upwelling. |
| | c. a taiga. |
| | d. a monsoon. |
| | e. a hurricane. |
| 16. | Which of the following factors is most important in determining the type of biomes found in a particular |
| | region? |
| | a. soil type |
| | b. light intensity |
| | c. temperature |
| | d. type of animals in the regione. type of plants in the area |
| 17. | A particular biome is characterized by |
| 1/. | a. climate. |
| | b. vegetation. |
| | c. animals. |
| | d. vegetation and animals only. |
| | e. climate, vegetation, and animals. |
| 18. | The biome most in danger of desertification is |
| | a. desert. |
| | b. grassland. |
| | c. deciduous forest. |
| | d. tropical rain forest. |
| 10 | e. taiga. |
| 19. | Most desert biomes are in close proximity to what other biome? |
| | a. tundrab. grasslands |
| | c. deciduous forests |
| | d. evergreen forests |
| | e. tropical rain forest |
| 20. | The biome that is currently increasing in size most rapidly is |
| | a. tundra. |
| | b. taiga. |
| | c. tropical rain forest. |
| | d. desert. |
| | e. grassland. |
| 21. | Fire in the dry shrublands does not kill the small bushy plants most probably because |
| | a. the plants have a tough protective bark. |
| | b. the leaves are very heavy and wet. |
| | c. there is not much to "feed" the fire and thus it moves rapidly through the area. |
| | d. humans live close by and have fire-fighting equipment.e. all of these |
| | c. an or mose |

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| | | The state of the soil of the soil is |
| | 22. | The biome with the greatest amount of topsoil and the richest, most fertile soil is |
| | | a. tundra. |
| | | b. taiga. |
| | | c. tropical rain forest. d. desert. |
| | | |
| | 22 | e. grassland. The Dust Bowl of the 1930s was the result of destruction of |
| | 23. | |
| | | a. desert. b. chaparral. |
| | | |
| | | c. tallgrass prairie. d. shortgrass prairie. |
| | | e. temperate deciduous forest. |
| | 24 | Which of the following biomes would support and be characterized by the greatest number and diversity of |
| | 24. | herbivores? |
| | | a. tundra |
| | | b. taiga |
| | | c. grassland |
| | | d. chaparral |
| | | e. desert |
| | 25. | The biome most closely associated with fire (and later, mudslides) is the |
| | 25. | a. desert. |
| | | b. tropical rain forest. |
| | | c. chaparral (dry shrublands). |
| | | d. temperate deciduous forest. |
| | | e. taiga. |
| | 26. | In tropical rain forests, |
| | 20. | a. competition for available sunlight is intense. |
| | | b. diversity is limited because the tall forest canopy shuts out most of the incoming light. |
| | | c. conditions are extremely favorable for growing luxuriant food crops. |
| | | d. there is little competition for resources. |
| | | e. habitat partitioning is minimal. |
| | 27. | In which biome is plant and animal life greatly "layered"? |
| | | a, tundra |
| | | b. taiga |
| | | c. tropical rain forest |
| | | d. desert |
| | | e. grassland |
| | 28. | The removal of trees from tropical rain forest for the purpose of large-scale food crop agriculture is not |
| | | recommended because |
| | | a. the soil is poor in organic nutrients. |
| | | b. erosion rates accelerate when trees are removed. |
| | | c. the soil has few decomposers. |
| | | d. the soil is poor in organic nutrients and erosion increases when trees are removed. |
| | | e. the soil is poor in organic nutrients and the soil has few decomposers. |

| 29. | Which biome is characterized by plants whose leaves drop off in the wintertime? |
|---------|---|
| | a. coniferous forest |
| • | b. tundra |
| | c. temperate deciduous forest |
| | d. tropical rain forest |
| | e. all of these |
| 30. | The largest biome in North America is the |
| 50. | a. taiga (evergreen coniferous). |
| | b. tundra. |
| | c. temperate grassland. |
| | d. temperate deciduous forest. |
| | e. chaparral (shrublands). |
| 31. | Evergreen trees are found in the |
| 31. | a. tropics. |
| | b. temperate zones. |
| | c. taiga. |
| | d. temperate zones and taiga only. |
| | e. tropics, temperate zones, and taiga. |
| 22 | Which biome is a treeless plain that occurs around the Arctic Circle? |
| 32. | • |
| | a. chaparral b. taiga |
| | c. desert |
| | d. grassland |
| | e. tundra |
| 22 | |
| 33. | Permafrost and low rainfall are characteristic of which biome? |
| | a. boreal forest |
| | b. montane coniferous forest |
| | c. tundra |
| | d. evergreen coniferous foreste. temperate deciduous forests |
| | 4 |
| 34. | Which of the following would be the least suitable for conversion to agriculture? |
| | a. grassland |
| | b. tropical forests |
| | c. deciduous forest |
| | d. prairie |
| | e. silted in lake |
| 35. | Freshwater lakes will turn over in the |
| | a. fall. |
| | b. winter. |
| | c. spring. |
| | d. summer. |
| | e. both fall and spring. |

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| | 36. | The profundal zone is characterized by | |
| | | a. plankton. | |
| | | b. algae. | |
| | | c. plants and animals. | |
| | | d. decomposers. | |
| ı | | e. all of these | |
| | 37. | A lake in which minerals are scarce is | |
| | | a. profundal. | |
| | | b. oligotrophic. | |
| | | c. eutrophic. | |
| | | d. benthic. | |
| | | e. pelagic. | |
| | 38. | Estuaries often exhibit a great degree of species diversity because | |
| | | a. saltwater and freshwater species are present. | |
| | | b. many species of the open ocean spend a portion of their life cycles in estuarine waters. | |
| | | c. there is a continued upwelling of nutrients. | |
| | | d. saltwater and freshwater species are present plus many species of the open ocean spend a | |
| | | portion of their life cycles in estuarine waters. | |
| | | e. saltwater and freshwater species are present and there is a continued upwelling of nutrients. | |
| | 20 | | |
| | 39. | What symbiotic organisms do corals lose during bleaching? | |
| | | a. coralline algaeb. dinoflagellates | |
| | | 19 . | |
| | | c. diatoms d. green algae | |
| | | e. red algae | |
| | 40. | Which zone of the ocean is found above the continental shelf? | |
| | 40. | a. abyssal | |
| | | b. benthic | |
| | | c. pelagic | |
| | | d. neritic | |
| | | e. oceanic | |
| | 41. | The Galápagos Rift is a geothermal ecosystem 2,500 meters beneath the ocean's surface that has which of | the |
| | ,,, | following as its primary producers? | |
| | | a. blue-green algae | |
| | | b. protistans | |
| | | c. nitrogen-fixing organisms | |
| | | d. chemosynthetic organisms | |
| | | e. vascular plants | |
| | 42. | During El Niño, | |
| | | a. warm, nutrient poor water replaces colder nutrient rich water. | |
| | | b. warm, nutrient rich water replaces colder nutrient poor water. | |
| | | c. cold, nutrient poor water replaces warmer nutrient rich water. | |
| | | d. cold, nutrient poor water replaces warmer nutrient rich water. | |
| | | e. none of these | |
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50. estuary 51. savanna

52. shortgrass prairie 53. sulfur oxides

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| | | |
| | | tallgrass prairie |
| | | deciduous forest |
| | | littoral zone |
| | 57. | · |
| | | tundra |
| | 59. | methyl bromide |
| | 60. | warm deserts |
| | | Answer questions in reference to the five biomes listed below: |
| | | a. tundra |
| | | b. grassland |
| | | c. desert |
| | | d. taiga (boreal forest) |
| | | e. savanna |
| | 61. | A tropical plant community composed primarily of shrubby trees widely spaced and surrounded by grasses is this biome. |
| | 60 | |
| | 02. | A community composed of herbaceous plants, no trees, a very short growing season, and relatively few animal species is likely to be this biome. |
| | 63. | This biome is characterized by variable daily temperatures and plants that are highly resistant to desiccation. |
| | | This biome has the richest soils. |
| | 65. | Conifers are most likely to be found in this biome. |
| | | Answer questions in reference to the five biomes listed below: |
| | | a. tundra |
| | | b. chaparral |

- c. desert
- d. taiga (coniferous forest)
- e. deciduous forest
- ___ 66. In this biome, you could find a black spruce.
 - 67. In this biome, you are most likely to find sagebrush.
 - 68. In this biome, you would expect to find caribou.
 - 69. This biome would be most likely to have a black oak.
- 70. This biome is most likely to have a population of moose.