Practice Test

Communities, Biomes, and Ecosystems

Class

Part A: Multiple Choice

In the space at the left, write the letter of the term or phrase that best answers each question.

CHAPTER 3

- **1.** Which defines a biological community?
 - **A.** all organisms living within a type of biome
 - **B.** all the interacting populations in an area
 - **C.** many interacting ecosystems in an area
 - **D.** the living and nonliving things in a region
- **2.** Which is a characteristic of a savanna?
 - A. areas of thick forests
 - **B.** grasses with trees intermixed
 - **C.** layer of frozen soil
 - **D.** sand and rocky terrain
- 3. All of the following are examples of pioneering species except?
 - A. lichens
 - **B.** moss
 - C. grasses
 - **D.** maple trees
- **4.** Which explains why secondary succession generally occurs more rapidly in an area than does primary succession?
 - **A.** Average precipitation is higher.
 - **B.** Moderate climatic conditions exist.
 - **C.** Pioneer species are microscopic.
 - **D.** Soil formation has already occurred.
- 5. Which would be the beginning of primary succession?
 - **A.** a woodland area growing from a grassland
 - **B.** lichen growing on cooled lava
 - C. new plant species growing in a flooded area
 - **D.** trees sprouting after a forest fire
- 6. Which explains why few animal species live in a fast-flowing river?
 - **A.** Cold water prevents all organisms from surviving.
 - **B.** Slow currents prevent accumulation of most organic matter.
 - **C.** Few animals are adapted to withstand high-speed water.
 - **D.** Frothing water reflects sunlight away from autotrophs.
- **7.** All the populations living in a pond would be an example of a(n) ____?
 - A. biome
 - **B.** community
 - **C.** ecosystem
 - **D.** population

Practice Test A CONTINUED

Part B: Matching

Matching Set 1 Write the letter of the correct forest biome on the line next to its description. Answers may be used only once.

 8. contains the greatest variety of organisms	Α.	boreal forest (7
 9. has deciduous trees and four distinct seasons	В.	temperate fore
 10. is dominated by coniferous trees such as spruce	C.	tropical rain fo
 11. terrestrial biome with the greatest biodiversity is	D.	desert
 12. biome where we would find permafrost	E.	tundra
 13. the water stored in lakes, rivers, and streams	F.	grassland
 14. biome that contains the world's oceans	G.	savanna
 15.dominated by oak, maple, hickory, and beech trees	Н.	freshwater
 16.where the rate of evaporation exceeds the rate of precipitation	I.	marine
 17. contains the greatest variety of organisms		
 18. destination of an African safari tour		
 19. found in the middle of the United States, plenty of flat, fertile farm land.		

20. contains the greatest variety of tree species

- (Taiga)
- est
- orest

Part C: Using Media



Bonus: What's wrong with this image?

21. How does the cartoon depict tolerance?

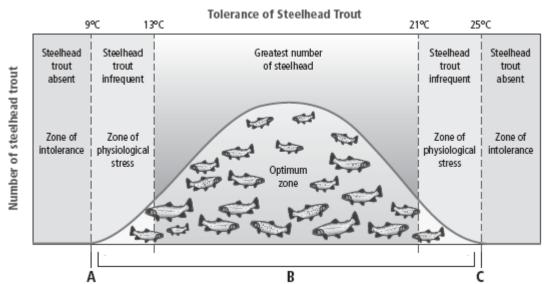
_____ _____

Practice Test A continued

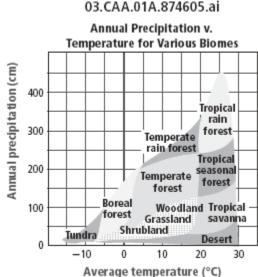
Part C: Interpreting Graphs

Write your response to each statement in the space provided.

- **22.** Study the graph to the right. **Interpret** the range of annual rainfall for temperate rain forest biomes.
- **23. Identify** the lower limit of annual precipitation for a temperate forest.
- **24. Infer** what the climate of a region would be like if it were transitioning from woodland grassland to savanna.
- **25.** Biologists are surveying a biome with an average precipitation of 188 cm and an average temperature above 18°C. **Identify** the biome they are surveying.
- **26.** Michigan's annual average temperature is about 9°C, with an average rainfall between 75-100 cm per year, which biome would Michigan belong to according to this chart?



27. Study the graph above. **Interpret** what this picture tells about temperature tolerance of the Steelhead trout.



Date

Practice Test A continued

28. Study the graph above. **Hypothesize** the what would happen of a school of steelhead trout placed in water with a temperature of 10°C.

Part D: Short Answer

Write your response to each statement in the space provided.

29. Contrast primary and secondary ecological successions.

30. Contrast weather and climate.

31. Identify several factors that determine the climate of a region.

32. Identify traits/characteristics of a pioneering species.