

Chapter 4 Ecosystems and Communities **Section Review 4-3**

Reviewing Key Concepts - BIOMES

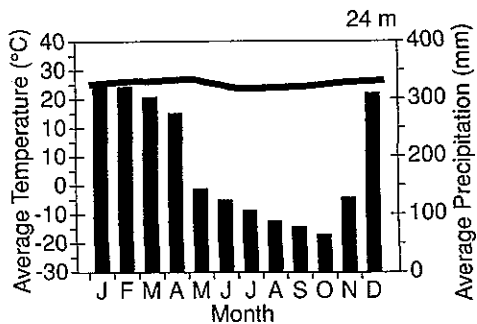
Matching *On the lines provided, write the letter of the biome that best matches the description of the climate and species of organisms that live in it.*

- | | |
|--|---|
| <p>_____ 1. hot and wet year round; home to more species than in any other land biome</p> <p>_____ 2. warm year round; wet and dry seasons; tall deciduous trees, tigers, termites</p> <p>_____ 3. warm temperatures; frequent fires; tall perennial grasses, herds of grazing herbivores</p> <p>_____ 4. variable temperatures; low annual precipitation; cacti, jack rabbits, scorpions</p> <p>_____ 5. warm to hot summers, cold winters, fertile soil; perennial grasses, elk, prairie dogs</p> <p>_____ 6. hot, dry summers characterized by drought, poor soil; woody evergreen shrubs, coyotes</p> <p>_____ 7. cold to moderate winters, warm summers, year-round precipitation; deciduous trees, raccoons, skunks</p> <p>_____ 8. long cold winters, short mild summers; needleleaf conifers, moose, lynx</p> <p>_____ 9. cold, dark, long winters, permafrost; mosses, lichens, sedges, caribou, snowy owls</p> | <p>a. boreal forest</p> <p>b. desert</p> <p>c. tropical rain forest</p> <p>d. temperate woodland and shrubland</p> <p>e. tropical savanna</p> <p>f. temperate grassland</p> <p>g. tropical dry forest</p> <p>h. temperate forest</p> <p>i. tundra</p> |
|--|---|

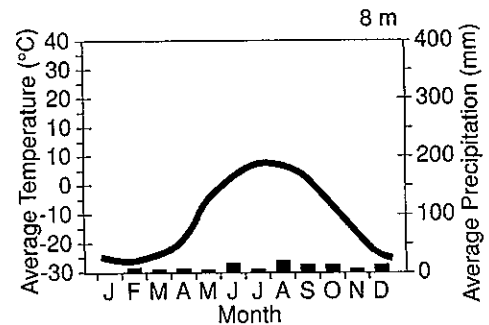
Reviewing Key Skills

10. Interpreting Graphics *Identify the biomes represented by Graphs A and B. Explain your answers.*

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A. _____



B. _____

Chapter 4 Ecosystems and Communities

Section Review 4-4

Completion *On the lines provided, complete the following sentences.*

1. The three main factors that affect aquatic ecosystems are _____, _____, and _____.
2. Most freshwater ecosystems belong in one of two following categories: _____ ecosystems and _____ ecosystems.
3. The two horizontal divisions of marine ecosystems are the _____ and _____.
4. The vertical divisions of marine ecosystems are determined by the distance from land and depth of the ocean floor. The basic vertical divisions are the _____, _____, and _____.

Reviewing Key Skills

5. **Applying Concepts** What role does phytoplankton play in the food webs of standing-water ecosystems?

6. **Comparing and Contrasting** What distinguishes the photic zone from the aphotic zone in a marine ecosystem?

7. **Comparing and Contrasting** Explain why photosynthesis is more likely to occur throughout the neritic zone but only in a small part of the open ocean.

8. **Predicting** Which ocean zone would seem least likely to support marine life?

9. **Applying Concepts** What abiotic factors characterize mangrove swamps?

10. **Applying Concepts** Why might a wide range of species be endangered by the pollution of an estuary?

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