

Ch 6: Biomes

Vocab: (know the following)

habitat, plain,	, ecosystem, photic zone, beach, Thermophyles,	biome, aphotic zone, coral reef, bacteria	hibernation, delta, brackish,	benthic zone, upwelling, beach erosion,	wetlands, downwelling, Archea,	flood estuary,
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Modified True/False

Indicate whether the statement is true or false. If false, change the identified word or phrase to make the statement true.

- _____ 1. Primary consumers convert solar or chemical energy into energy stored in the bonds of organic sugars. _____
- _____ 2. Weather describes the average conditions, including temperature and precipitation, over long periods in a given area. _____

Short Answer

1. How are biomes characterized?
2. Define *net primary production* in your own words.
3. List the three main criteria ecologists use to classify aquatic ecosystems.
4. What might be some consequences if estuaries were destroyed due to development?
5. What are some of the benefits provided by kelp forests and coral reefs?
6. Explain why a freshwater fish cannot survive in salt water.
7. Give one reason why there tends to be more organisms in the photic zone than in the aphotic zone.
8. Why are flood plain soils particularly fertile?
9. Provide two reasons to support the following statement: *Wetlands have significant ecological importance*
10. Explain the effect salinity and temperature have on water density.
11. Why is microscopic phytoplankton very important as a food source?

12. How does ocean depth affect photosynthesis?
13. What is similar about the ecosystems that make up a biome?
14. Explain how natural selection is important to biomes and organisms.
15. What does a climatograph show?
16. What biome(s) have the greatest net primary production?
17. What biome(s) has the lowest net primary production?
18. What is net primary production?
19. Discuss the polar ice cap ecosystem.
20. Discuss the abyssal plain.
21. Give a food chain for a deep sea volcano.
22. What causes ocean currents?
23. Why do coral reefs have such high productivity?

Essay

1. Choose one biome and explain how organisms have adapted to the conditions of that biome.
2. Why is depth a useful characteristic for classifying aquatic ecosystems?