

Chapter 8 Aquatic Biodiversity Review Questions

1. What are some of the ecological and economic services that coral reefs provide?
2. What is coral bleaching?
3. What percentage of the earth's surface is covered with water?
4. Distinguish between a saltwater (marine) life zone and a freshwater life zone and give two examples of each.
5. Define plankton and describe three types of plankton.
6. Distinguish among nekton, benthos, and decomposers and give an example of each.
7. List five factors that determine the types and numbers of organisms found in the three layers of aquatic life zones?
8. What is turbidity, and how does it occur? Describe one of its harmful impacts.
9. What major ecological and economic services are provided by marine systems? .
10. What are the three major life zones in an ocean?
11. Distinguish between the coastal zone and the open sea.
12. Distinguish between an estuary and a coastal wetland.
13. Explain why both estuaries and coastal wetlands have high net primary productivity.
14. Explain the importance of sea grass beds.
15. What is a mangrove forest and what is its ecological and economic importance?
16. What is the intertidal zone?
17. Distinguish between rocky and sandy shores and describe some of the organisms often found on each type of shoreline.
18. Explain the importance of coral reefs and some of the interactions among the species in such systems.
19. Describe the three major zones in the open sea.
20. What human activities pose major threats to marine systems and to coral reefs?
21. Explain why the Chesapeake Bay is an estuary in trouble. What is being done about some of its problems?
22. What major **ecological** and **economic** services do fresh-water systems provide? .
23. What is a lake?
24. What four zones are found in deep lakes?
25. Distinguish among oligotrophic, eutrophic, and mesotrophic lakes.
26. What is cultural eutrophication?
27. Define surface water, runoff, and watershed (drainage basin).
28. Describe the three zones that a stream passes through as it flows from mountains to the sea.
29. Describe the relationships between dams, deltas, wetlands, hurricanes, and flooding in New Orleans, Louisiana (USA).
30. Give three examples of inland wetlands.

31. What are some of the ecological and economic contributions of inland wetlands.
32. What are four ways in which human activities are disrupting and degrading freshwater systems?
33. Describe inland wetlands in the United States in terms of the area of wetlands lost and the resulting loss of ecological and economic services.