

**Ch 6 Review Questions** → Write your answers on a separate piece of paper. Do Not write on this sheet, and return when completed with the assignment.

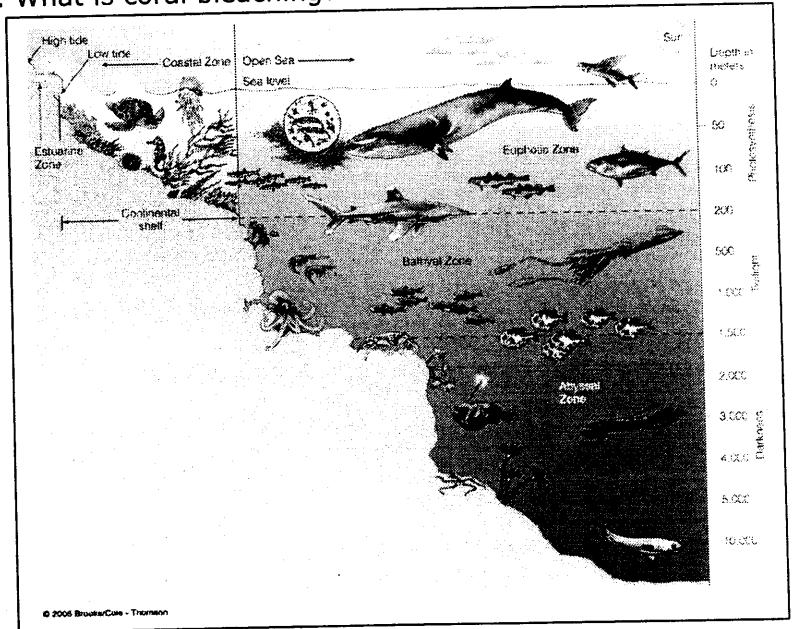
1. What are *coral reefs* and *coral polyps*? How are coral reefs formed? List seven ecological and economic services that coral reefs provide. What is coral bleaching?

2. What are the 2 major types of aquatic life zones?

3. Distinguish among *phytoplankton*, *zooplankton*, *ultraplankton*, *nekton*, *benthos*, and *decomposers* found in saltwater and freshwater life zones.

4. Describe a few advantages and disadvantages of living in an aquatic environment.

5. List four major factors determining the types and numbers of organisms found in the surface, middle, and bottom layers of aquatic systems. How do the concentrations of carbon dioxide and dissolved oxygen vary in these three layers??



7. What is the *coastal zone*? Distinguish among *estuaries*, *coastal wetlands*, and *mangroves*. List three reasons why temperature and salinity vary widely in estuaries and coastal wetlands, and explain why they have such a high NPP.

8. What is the *intertidal zone*? Distinguish between *rocky shores* and *sandy beaches*.

9. What are *barrier islands*? Why are they so attractive for human development, and why are human structures built there so vulnerable to destruction?

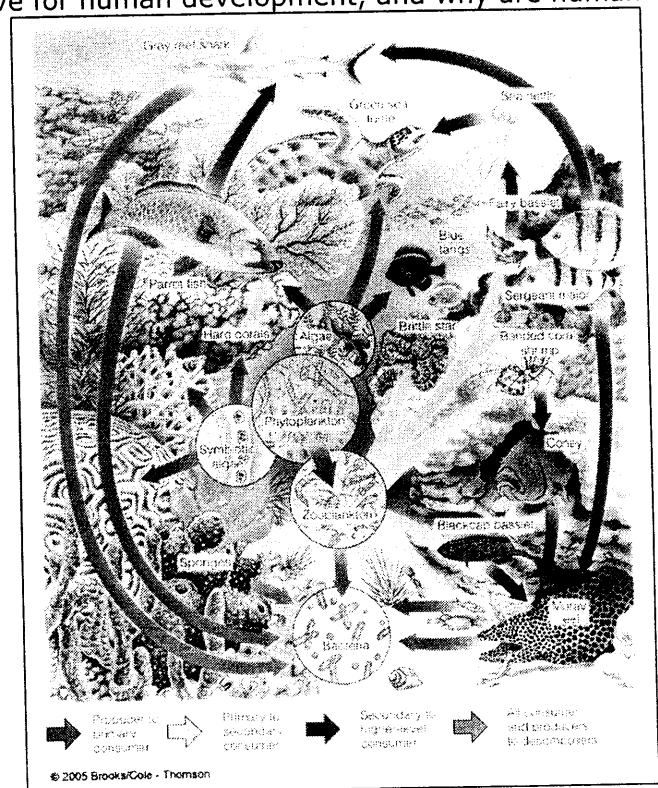
10. List three reasons why coral reefs are vulnerable to damage. List 5 harmful impacts of human activities on coral reefs.

11. What is the *open sea*, and what are its three major vertical zones? Why is the NPP per unit of area so low in the open sea?

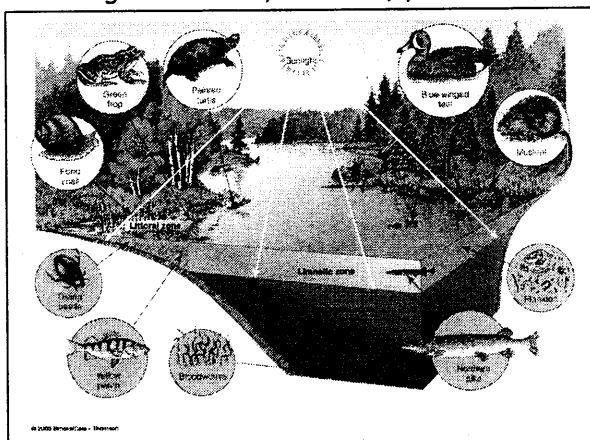
12. List five major harmful human impacts on coastal zones.

13. What is a *freshwater life zone*, and what are the two major types of such zones?

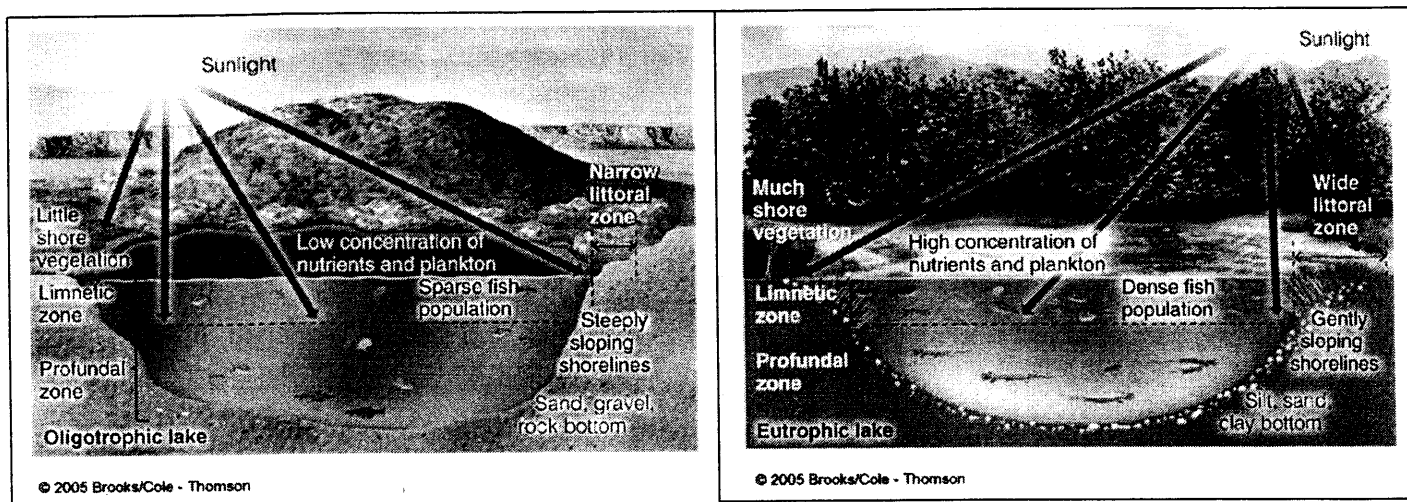
14. What major ecological and economic services are provided by freshwater systems?



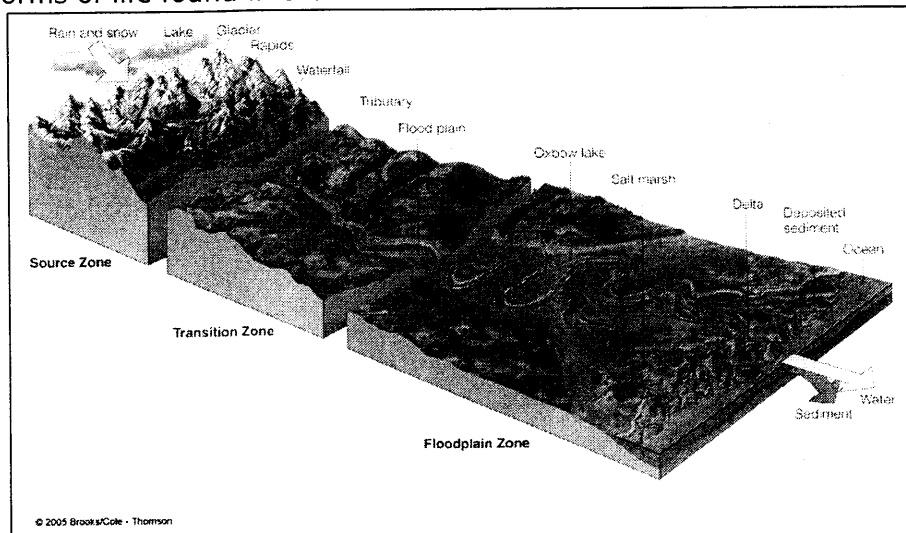
15. What is a *lake*? Distinguish among the *littoral*, *limnetic*, *profundal*, and *benthic* zones of a lake.



16. What are the three types of lakes, based on their nutrient content and primary productivity?



17. Distinguish among *surface water*, *runoff*, and a *watershed*. Describe the properties and general forms of life found in the three zones of a river as it flows from mountain highlands to the sea.



18. What are *inland wetlands*? List 3 examples of such wetlands. What are *seasonal inland wetlands*?

19. List 3 major harmful human impacts on freshwater systems.