*Section 1: Freshwater Ecosystems*

1. The types of organisms in aquatic ecosystems are determined by what factor? Define the term.
2. Define wetland.
3. What are four factors that determine which organisms live in certain areas of water? Provide an example.

1.

2.

3.

4.

1. Classify the four types of organisms living in aquatic ecosystems:

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** | **Characteristics** | **Examples** | **Role in Food Web** |
| a. |  |  |  |
| b. |  |  |  |
| c. |  |  |  |
| d. |  |  |  |

1. What are the five types of freshwater ecosystems?

1.

2.

3.

4.

5.

1. Describe the two zones in a lake. Provide four examples of organisms for each zone.
2. What is eutrophication?
3. What organisms lower oxygen levels in a eutrophic lake?
4. What factor accelerates eutrophication?
5. What is the difference between a marsh and a swamp?
6. What are six functions of freshwater wetlands?
7. Why do we seek to preserve wetlands after years of draining them? List three reasons.
8. How does a river change with the climate and the land? Describe ALL the changes.
9. What are some ways that rivers are changing in populated areas?

Section 2: *Marine Ecosystems*

1. What are coastal wetlands?
2. What roles do coastal wetlands play?

1.

2.

3.

4.

1. What bodies of water mix in an estuary?
2. Why are estuaries productive ecosystems?
3. Why do estuaries support many types of marine organisms?
4. Describe the typical food chain/web in this ecosystem.
5. Why are major ports built on estuaries?
6. What are some major threats to estuaries?
7. What is a salt marsh?
8. What does a salt marsh act as? Where do they migrate to?
9. What is a mangrove swamp? What do they help do?
10. What is a barrier island and what does it do?
11. What are coral reefs?
12. Where are coral reefs found in the ocean?
13. Why does coral bleaching occur?
14. Where is most ocean life concentrated?
15. What is the food source for the open ocean?
16. What are the main sources of ocean pollution?
17. What do the Arctic and Antarctic food webs have in common?