Vocabulary
Understand and be able to apply each of these terms.

1. Salinity –
2. Plankton –
3. Nekton –
4. Benthos –
5. Littoral Zone –
6. Benthic Zone –
7. Eutrophication –
8. River Source –
9. River Course –
10. River Mouth –
11. Marsh –
12. Swamp –
13. Bog –
14. Lagoon-
15. Estuary –
16. Abundance –
17. Diversity –
18. Watershed -
19. Hydrophytes-
20. Halophytes-
Critical Thinking
Read, analyze, and give complete answers to these questions.

1. What are the three important benefits (ecosystem service) provided by wetlands?

2. What causes high and low tides? **Explain.**

3. Where would you find an estuary? What type of organisms would you expect to find there?

4. What is the definition of “freshwater”?

5. The mouth of a river can sometimes become “murky” because of all of the sediments that are washed downstream. **Name 3 problems are caused by “murkiness”?**

6. Name 2 types of fish that can live in low oxygen environments:

7. Explain why reefs are so important to preserve. **What are some of the dangers to coral reefs? Name 2.**

8. There are different types of marine reef environments. **Define the following:**
   a. Fringing Reefs:
   b. Barrier Reefs:
   c. Atolls:
   d. Coral Reefs:

9. **Draw a diagram** of a marine environment and **define the following:**
   a. Intertidal:
   b. Pelagic:
   c. Abyssal:
   d. Benthic:
10. What is “winterkill” in a lake? *What happens?*

11. Describe the differences in the types of food webs found in the two ocean light zones, **euphotic** and **aphotic**. *Where does the initial energy input for each come from?*

12. Explain how lakes “turn-over” yearly and what this process causes. *Name one positive and one negative aspect of turn-over.*

13. **Draw a diagram** of a lake and *define the following:*
   a. Littoral Zone
   b. Limnetic Zone
   c. Profundal Zone

14. Complete this summary table of aquatic ecosystems:

<table>
<thead>
<tr>
<th>Location</th>
<th>Physical Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coral Reef</td>
<td></td>
</tr>
<tr>
<td>Sandy Beach</td>
<td></td>
</tr>
<tr>
<td>Mangrove Swamp</td>
<td></td>
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<tr>
<td>Salt Marsh</td>
<td></td>
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<tr>
<td>Mudflat</td>
<td></td>
</tr>
<tr>
<td>Rocky Shore</td>
<td></td>
</tr>
</tbody>
</table>
Climatograph
Use the data provided to construct a climatograph. Temperature should be displayed as a line graph and precipitation as a bar graph.

<table>
<thead>
<tr>
<th>Month</th>
<th>Precipitation (cm)</th>
<th>Temperature (C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>10</td>
<td>35</td>
</tr>
<tr>
<td>February</td>
<td>3</td>
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</tr>
<tr>
<td>December</td>
<td>7</td>
<td>35</td>
</tr>
</tbody>
</table>

What type of biome do you believe this is? Give specific observations from your graph to justify this answer.