Terrestrial and Aquatic Ecosystems

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4.2 pgs. 94 - 100

Biomes

* A large\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_that are adapted to those conditions of temperature and precipitation

Terrestrial Ecosystems

* Ecosystems that are found anywhere\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Alberta’s terrestrial ecosystems are found within two major biomes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Aquatic Ecosystems
* Aquatic ecosystems are found in\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

In Alberta, the major aquatic ecosystems are\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (lakes)

Questions: pgs. 94 – 99

Terrestrial Ecosystems

1. What is another name for the taiga biome?
2. What adaptations make conifers well-suited to taiga?

Define:

Canopy –

Permafrost –

Muskeg –

1. In taiga, which organisms occupy the canopy?
2. Describe what conditions exist on the forest floor.
3. What kind of vegetation is found on the forest floor?
4. What kind of primary consumers are found here?
5. What kind of predators do we find?
6. In areas of taiga with warmer ground temperatures, what kind of soil conditions exist and why?
7. Describe the conditions that result in the formation of a muskeg ecosystem in the northern area of taiga.
8. Why is decomposition of plant and animal matter slow in muskeg ecosystems?
9. What is the soil like in a grassland ecosystem and what contributes to this?
10. Unlike forest ecosystems that have 3 layers, how many layers does a grassland ecosystem have?
11. What kind of organisms, dominate a deciduous forest ecosystem?
12. What are the abiotic conditions in a deciduous forest ecosystem?

Lake Ecosystems

1. Define the following:
2. Littoral zone-
3. Limnetic zone-
4. Plankton-
5. Profundal zone-
6. Using table 1 on pg. 97 complete the following table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ecosystem |  |  | Grassland | Deciduous forest |
| Soil | Acidic | permafrost |  |  |
| Biotic factor (vegetation) | Spruce trees | Lichens and moss |  |  |
| Annual mean precipitation (cm) | 50-250 |  | 25-100 | 75-250 |

1. Fill in the following table for a lake ecosystem.

|  |  |  |  |
| --- | --- | --- | --- |
| Zone | Light conditions | Temperature oC | Organisms |
|  | Dark | 10 |  |
| Littoral |  | 25 |  |
|  | Dim | 15 | plankton |