**Environmental Science Unit 1 Review Sheet**

Ecology: Chapters 5-6, 11

**Review Questions**

**Chapter 5: Interactions: Environments & Organisms**

***Section 5.1: Ecological Concepts***

1. Contrast biotic and abiotic factors in an ecosystem.
2. Identify and describe the levels of organization in ecology.
3. Define an organism’s habitat. How is it different from the niche?

***Section5.2: Role of Natural Selection & Evolution***

1. Demonstrate the importance of adaptation by describing the steps by which a population of insects becomes resistant to a pesticide.

***Chapter 6: Kinds of Ecosystems & Communities***

**Section 1: Succession**

1. Describe the two types of ecological succession (primary and secondary).
2. Give examples of the two types of ecological succession.
3. Which type of succession takes less time? Why is this true?
4. Explain the role of pioneer species in ecological succession.
5. Describe the characteristics of the climax community.

***Section 2: Biomes are Determined by Climate***

1. What factors contribute to the characteristics within different types of biomes?
2. Describe why vegetation is used to name a biome.
3. Explain how latitude and altitude affect which plants grow in an area.

**Chapter 11: Biodiversity Issues**

1. Define biodiversity and explain at least four ways in which biodiversity is important to ecosystems and humans.
2. Analyze the importance of a keystone species.
3. Analyze the potential value of a single species (population survival, medical, agricultural, recreational uses, etc.).
4. Compare the terms endangered, threatened and extinct.
5. Define and give three examples of endangered and threatened species.
6. Describe several ways that species are being threatened with extinction globally.

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| **Name** | **Temp** | **Rainfall** | **Biotic Factors** | **Characteristics**  **or Functions** | **Threats to Biomes** |
| Tundra |  |  |  |  |  |
| Taiga |  |  |  |  |  |
| Temperate Deciduous Forest |  |  |  |  |  |
| Temperate Grasslands |  |  |  |  |  |
| Desert |  |  |  |  |  |
| Tropical Rain Forest |  |  |  |  |  |
| Savanna |  |  |  |  |  |
| Lakes and Ponds |  |  |  |  |  |
| Wetlands |  |  |  |  |  |
| Rivers |  |  |  |  |  |
| Estuaries |  |  |  |  |  |
| Marine (Oceans) |  |  |  |  |  |
| Coral Reefs |  |  |  |  |  |