Name \_\_\_\_\_

## **Environment and Ecology Test Study Guide**

Review your vocabulary! Complete the following questions to the best of your ability and review these concepts:

1. Explain the difference between a producer, consumer, and decomposer.

A producer can make its own food. A consumer is the one that eats a producer or another consumer. A decomposer feeds on dead animals or humans.

2. What are the characteristics of the following biomes?

Deciduous Forest -has four distinct seasons 25-50" rain, trees lose their leaves.

Temperate Rain Forest – 80+" rain, deciduous trees – Ex Great Smoky Mtns. Nat. park.

Tropical Rain Forest – 80+ inches of rain, lush vegetation.

Boreal (Coniferous) Forest - coniferous trees, 50" precip, cold winters, mild summers.

Desert 10" rain or less. Huge temperature range.

Grassland (Savannah) – Grassland receives less rain, mostly grass. Savannah gets more rain, more brush & trees

3. Explain the difference between biotic and abiotic factors in an ecosystem.

Biotic means the living things in a habitat, and the non-living things in a habitat are called abiotic.

4. What is a watershed? To which do we belong? A region that drains its water into a river or other body of water. Yellow Breeches -> Susquehanna ->Chesapeake Bay.

What is a wetland? An area of land that has a high amount of moisture.

How are they related? A watershed drains into a wetland.

5. How are producers and consumers related in a food web?

Consumers eat producers – it's a web because upper level consumers can eat most of the lower level consumers below them.

6. Construct an energy pyramid including producers and 1<sup>st</sup> through 4<sup>th</sup> level consumers.

Hopefully you sketched down our example from class. Remember, the producers at the bottom are a fifth layer. Your 4 levels of consumers are above, with each section above able to eat that which is below.

7. Explain how the greenhouse effect works. How is the greenhouse effect believed to affect climate change?

Greenhouse gasses (methane, Carbon dioxide, etc.) in the Earth's atmosphere trap the heat from the sun, not allowing it to radiate back into space. The result is that the Earth's overall temperature is rising.