

1) **SNC1D - Review for Unit 1 - Ecology**

1) Identify the following words:

- a) Stewardship,
- b) sustainability,
- c) biodiversity
- d) system
- e) ecology,
- f) ecosystems,

2) What is the difference between

- a) biotic and abiotic factors?
- b) habitat and niche?
- c) Food chains and Food webs?
- d) producers and consumers?
- e) Photosynthesis and Cellular Respiration
- f) Atmosphere and Hydrosphere
- g) Primary and secondary succession

3) What is the relationship between species, population, community, ecosystem, biome, and biosphere?

4) What are the major factors that create different biomes?

5) Describe the nitrogen cycle. Include the terms nitrification, denitrification, nitrifying and denitrifying bacteria, ammonia, plants, animals, lightning, fertilizer, nodules.

6) In a diagram, describe the carbon cycle, including photosynthesis and cellular respiration and their relationships.

7) Identify:

- a) carnivores,
- b) herbivores,

- c) scavengers,
- d) omnivores,
- e) (top) predators,
- f) prey.

- 8) Describe energy pyramids and energy flow.
- 9) Describe these biotic interactions: competition, symbiosis: mutualism, commensalism, parasitism.
- 10) What is the difference between carrying capacity and limiting factors.
- 11) What is biomagnification? What is its importance?
- 12) What are five different ways in which humans could influence the environment in a negative way?
- 13) How can you tell if the water quality of a stream is good or not?
- 14) What does it mean to be good stewards of the environment? Give three examples.
- 15) What are 2 ways that water can move from on/in the ground to the air or water?
- 16) List 3 ways invasive species can be bad for an ecosystem.
- 17) List the terms representing the order of decreasing populations of a species.