

Science 10 Final Exam Review
Section 1: Ecosystems

1. What is sustainability?
2. Define the following in regards to weather:
 - a. Earth's Tilt, Revolution & Rotation:
 - b. Prevailing Winds:
 - c. Ocean Currents:
 - d. Land Masses:
 - e. Coriolis Effect:
3. Define and provide an example of the following:
 - a. Organism:
 - b. Population:
 - c. Community:
 - d. Ecosystem:
 - e. Biome:
 - f. Autotroph:
 - g. Heterotroph:
 - h. Primary Consumer:
 - i. Secondary Consumer:
 - j. Producer:
 - k. Herbivore:
 - l. Carnivore:
 - m. Omnivore:
 - n. Decomposers:

4. Draw a simple food web for organisms in the Prairies (around Warman). Be able to list producers, and different trophic levels.

5. Define and describe how the following terms affect a population:
 - a. Immigration:
 - b. Emigration:
 - c. Natality (Births):
 - d. Mortality (Deaths):

6. What is a carrying capacity?

7. What are different biotic and abiotic factors that can affect a population (think about the Survival Game or Deer Game)?

8. Define and provide an example of a biotic and an abiotic factor.

9. What is biodiversity and why is it important?

10. Define and provide an example of a biotic and an abiotic factor.

11. Draw the Carbon-Oxygen Cycle and the Water Cycle. How do humans affect these cycles.