Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Explain the difference between the vocabulary words in each of the following sets.*

1. Niche----Habitat
2. Mutualism----Commensalism
3. Limiting Factor----Carrying Capacity
4. Biosphere----Ecosystem
5. Producer----Consumer
6. Population----Ecosystem
7. Community----Population
8. Parasitism----Symbiosis
9. Ecosystem----Ecology
10. Parasitism----Commensalism

*Chose the word or phrase that best answers the question.*

1. Which of the following is a living factor in the environment?
   1. Animals
   2. Air
   3. Sunlight
   4. Soil
2. What is made of all the population in an area?
   1. Niches
   2. Habitats
   3. Community
   4. Ecosystem
3. What does the number of individuals in a population that occupies an area of a specific size describe?
   1. Clumping
   2. Size
   3. Spacing
   4. Density
4. What of the following animals is an example of a herbivore?
   1. Wolf
   2. Moss
   3. Tree
   4. Rabbit
5. What term best describes a symbiotic relationship in which one species is helped and the other is harmed?
   1. Mutualism
   2. Parasitism
   3. Commensalism
   4. Consumerism
6. Which of the following conditions tends to increase the size of a population?
   1. Births exceeds death
   2. Population size exceeds the carrying capacity
   3. Movements out of an area exceed movements into the area
   4. Serve drought
7. Which of the following is most likely to be a limiting factor in a population of fish living in the shallow water of a large lake?
   1. Sunlight
   2. Water
   3. Food
   4. Soil
8. Which pair of words is incorrect?
   1. Black bear----carnivore
   2. Grasshopper----herbivore
   3. Pig----omnivore
   4. Lion----carnivore

*Short Answer*

1. Infer why a parasite has a harmful effect on the organism it infects.
2. Explain what factors affect carrying capacity.
3. Explain your own habitat and niche.
4. Explain how several different niches can exist in the same habitat.
5. Make a model of a food chain using the following organisms: grass, snake, mouse, and hawk.
6. Classify the following relationships as parasitism, commensalism, or mutualism: a shark and a remora fish that cleans and eats parasites from the shark’s gills; head lick and a human; a spiny sea urchin and a tiny fish that hides from predators by floating among the sea urchins spines.
7. Compare and contrast the diets of omnivores and herbivores. Give examples of each.
8. List three ways exponential growth in the human population affects people’s lives.