Biology Chapter 15 Study Guide

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

1. What do you call the collection of living things that live in the biosphere?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Fill in the following diagram with the following terms: biota, biosphere, atmosphere, geosphere, hydrosphere
   1. Which of earths systems includes all of the others?
3. Put the following terms in the diagram above under the correct heading:
   1. Horses
   2. The ozone layer
   3. A mountain
   4. Lake Michigan
   5. Cloud
   6. Polar ice caps
   7. The ocean
4. What does the Gaia Hypothesis suggest?
   1. According to the Gaia hypothesis, what would be the “vital organs”\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. What would be the cells?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is climate?
6. What is a microclimate?
   1. Give an example of a microclimate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. What causes Earths climate zones?
8. In the following picture of a diagram, which side will get rain and why?

Mountain

Wind

1. What 2 things determine/define a biome?
   1. .
   2. .
2. What is chemosynthesis
3. **Circle the correct terms**: Organisms that do chemosynthesis are producers/ consumers; also known as autotrophs / heterotrophs
4. In the abyssal zone, you are more likely to find a producer that does chemosynthesis or photosynthesis? Explain
5. Which ocean zone contains the most biomass?
6. Corals belong to which kingdom: plant, animal, fungi, bacteria, none they’re rocks? **(see p470)**
7. Corals are said to be in a symbiotic relationship, which type of symbiosis: **(see p470)**
   1. Mutualism
   2. Commensalism
   3. or parasitism
8. What other organism are corals in a symbiotic relationship with? **(see p470)**
9. Why is the rise of global temperatures a threat to Coral reefs? (seep470)
10. Which ocean zone contains the most biomass?
11. What is a kelp forest?
12. Kelp is a type of seaweed. It belongs to which kingdom
    1. Plant
    2. Animal
    3. Protest
    4. Bacteria
    5. Fungi
13. What kind of abiotic factors do kelp prefer in terms of temperature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. What is an estuary
15. What is a wet land? Give an example.