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



**Block: \_\_\_\_\_**

**Ecology Practice Test Worksheet**

(May 9, 2012)

1. What do the following prefixes mean**? (9 pts)**:

 “**Geo**”: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ “**Eco**”: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ “**Photo**”: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 “-**vore**”: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ “**Herbi**”: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ “**Carni**”: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 “**Auto**”: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ “**-troph**”: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ “**A**”: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Concerning the water cycle, identify these components: **(6 pts)**

**Word Bank: Condensation, Evaporation, Groundwater, Precipitation, Run-off, Transpiration.**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ The evaporation of water from the leaves of plants

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Water changing from liquid to a gaseous form.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Water changing from gaseous to a liquid form.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Any product of the condensation of [atmospheric](http://en.wikipedia.org/wiki/Atmosphere) [water vapor](http://en.wikipedia.org/wiki/Water_vapor)

 that falls under gravity.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ When the water table is so saturated that the excess water

 flows toward rivers, streams, and lakes..

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Precipitation that seeps into the ground.

1. Concerning the relationships between organisms, identify these three types of symbiotic relationships: **(3 pts)**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Win/win. Both organisms are benefited.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Win/lose. One organism is benefited, the other is harmed.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Win/unaffected. One organism is benefited, the other is

 neither harmed nor benefited.

1. Place the following ecological organizational units in a sequence from most specific to broadest. Numbers 1 and 6 have been given; fill in the remaining groups in the correct order: **(4 pts) Biome, Community, Ecosystem, Population**
2. **Species**\_\_\_\_\_\_\_\_\_\_\_ **2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **4.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. Biosphere**

1. Match the correct ecological organizational unit with its definition: **(6 pts)**

\_\_\_\_\_ 1. Biome **A.** Organisms that interbreed; produce healthy offspring.

\_\_\_\_\_ 2. Ecosystem **B.** Interactions with plants, animals, & abiotic factors.

\_\_\_\_\_ 3. Biosphere **C.** “5 miles up, 5 miles down”. All life exists here.

 \_\_\_\_\_ 4. Species **D.** A group of one species that live in the same place at the same time.

 \_\_\_\_\_ 5. Community **E.** A collection of interacting populations

 \_\_\_\_\_ 6. Population **F.** A group of ecosystems that have the same climate &

 communities.

1. The total weight of living tissue in a trophic level is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(1 pt)**
2. When an exotic species is moved by humans from its natural habitat to a habitat it doesn’t belong, it is called a (n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. **(1 pt)**
3. What are the SIX critical elements of life? **(6 pts)**
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **4.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_5**

9. Write out the formula for photosynthesis, **AND** label it: **(2 pts)**

10. Would an organism, like a vulture, more accurately be called a decomposer or a

 scavenger? **(1 pt)**

11. What are two examples of decomposers? **(2 pts) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

12. What are the four factors that affect population size? **(4 pts)**

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. What is the definition of an autotroph **AND** give an example? **(2 pts)**

14. What is the definition of a heterotroph **AND** give an example? **(2 pts)**

15. What does “carrying capacity” mean? **(2 pts)**

16. What are 5 things that humans do to increase the extinction of plants & animals? **(5 pts)**

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17. Match these ecology related terms to their brief definitions: **(10 pts)**

\_\_\_\_\_ 1. Permafrost **A.** The role an organism plays in its ecosystem.

\_\_\_\_\_ 2. Immigration **B.** The study of the environment.

\_\_\_\_\_ 3. Emigration **C.** A byproduct of photosynthesis.

 \_\_\_\_\_ 4. Biomagnification **D.** Interactions between food chains.

 \_\_\_\_\_ 5. Niche **E.** The movement of individuals into an area.

 \_\_\_\_\_ 6. Habitat **F.** The place an organism lives.

 \_\_\_\_\_ 7. Biodiversity **G.** A wide variety of living organisms.

 \_\_\_\_\_ 8. Glucose **H.** The movement of individuals out of an area.

 \_\_\_\_\_ 9. Food web **I.** Frozen dirt.

 \_\_\_\_\_ 10. Ecology **J.** Increase in concentration of a pollutant from one

 link in a food chain to the next link.

18. What are two characteristics of a desert biome? **(2 pts)**

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

19. What are two characteristics of a tropical rain forest? **(2 pts)**

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

20. What are two ways that carbon moves through the carbon cycle? **(2 pts)**

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

21. Draw and label an example of a terrestrial food chain (at least 3 trophic levels)? **(3 pts)**

22. What causes the greenhouse effect AND what is the result? **(2 pts)**