**FYS207 Earth Corps Week 4 Reading Review Questions Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Part 1. Mollison Chapter 5 Climate Factors**

<https://people.wou.edu/~taylors/FYS207_WOU_Earth_Corps/text/Text_Ch5_ClimaticFactors.pdf>

Read the chapter and answer the following review questions. Provide sketches or images, as required. Use your favorite internet search tools to augment your readings, and answer the questions below.

1. Based on reading the chapter introduction, provide a brief 3-4 sentence summary of why climate factors are important with respect to permaculture and sustainable systems design.
2. List the types of atmospheric measurements used to classify climate zones globally.
3. Examine Table 5.1; list and briefly summarize the characteristics of the 12 climate zones recognized on planet earth.
4. List the three primary meteorological mechanisms that result in “causing rain” to fall from the sky.
5. List and briefly describe the three types of fog that result from atmospheric condensation.
6. Define the term albedo, and how it relates to solar energy input onto the Earth’s surface.
7. Draw and label a sketch, or include an image, illustrating the concept of convection currents involved in heating and cooling of the atmosphere.

**Part 2. Text Reading: Climate and Microclimates**

<https://people.wou.edu/~taylors/FYS207_WOU_Earth_Corps/Morrow_Chap5_Climate.pdf>

Read the chapter and answer the following review questions. Provide sketches or images, as required. Use your favorite internet search tools to augment your readings, and answer the questions below.

1. List the permaculture design aims that involve working with climate elements on the landscape.
2. Describe the difference between the concepts of larger scale global climate vs. microclimates. List the local factors that influence microclimate variability.
3. Define the term “aspect” and provide examples of how it influences microclimates.
4. List three examples of how bodies of water influence local climate factors.