**CHAPTER 3 MID-TERM EXAM REVIEW 2012**

***QUESTIONS 1-7 SHOULD BE ANSWERED AS A TYPE II (SIMPLE ANSWERS ARE SUFFICENT FOR QUESTIONS 8-11)***

1. Describe a community and what determines the types of organisms in it. BE SURE TO USE TO FOLLOWING TERMS and UNDERLINE THEM WHEN USED: populations, abiotic limiting factors, biotic limiting factors, and range of tolerance
2. Explain the process of ecological succession. BE SURE TO USE TO FOLLOWING TERMS and UNDERLINE THEM WHEN USED: ecosystems, community, primary succession, pioneer species, climax community, and secondary succession
3. Explain the effects of latitude and climate on communities. BE SURE TO USE TO FOLLOWING TERMS and UNDERLINE THEM WHEN USED: weather, equator, polar/temperate/tropical zones, temperature, precipitation, biome.
4. Explain the greenhouse effect. BE SURE TO USE TO FOLLOWING TERMS and UNDERLINE THEM WHEN USED: water vapor, carbon dioxide, and methane.
5. Explain how the ozone hole has formed and why it is dangerous. BE SURE TO USE TO FOLLOWING TERMS and UNDERLINE THEM WHEN USED: UV radiation, CFCs, and Antarctica .
6. Describe the correlation between carbon dioxide levels in the atmosphere and global temperature. BE SURE TO USE TO FOLLOWING TERMS and UNDERLINE THEM WHEN USED: fossil fuels
7. Describe the correlation between carbon dioxide levels in the atmosphere and global temperature. BE SURE TO USE TO FOLLOWING TERMS and UNDERLINE THEM WHEN USED: fossil fuels
8. Using Figure 2 on p 61…
   1. What is the ideal water temperature for steelhead trout (approximately)?
   2. Between what temperatures can steelhead trout survive?
   3. What is a limiting factor for steelhead trout?
9. Using DATA ANALYSIS LAB on p 63…
   1. In which plants did the shoot mass decrease during the course of the experiment?
   2. Which plants were most positively affected by the addition of soil invertebrates?
10. Using Figure 6 on p 66…
    1. Which biome would you expect in an area that receives 200 cm of precipitation annually if the average temperature is 10 degrees C?
    2. Approximately how much precipitation does a tropical rainforest with an average temperature of 25 degrees C get each year?
11. Using Figure 7 on p 67…
    1. Which type of winds does most of the United States get?
    2. Name the two things that can happen to solar radiation.
    3. Where is the ozone hole?
    4. During what year did the carbon dioxide concentration in the atmosphere reach 350 ppm and what was the average temperature that year?