

Name _____ Date _____ Period _____

HONORS BIOLOGY – PROBLEM SET

CHAPTER 1: EXPLORING LIFE

1. List all of the “important properties of life” that are listed at the beginning of chapter 1. Now pretend that those properties no longer exist. For each property, state ONE way that life as we know it would be different or nonexistent. [3 points]
2. The 13 levels of organization represent the “vertical” layers of biology. List the 13 levels of organization in order, beginning with the smallest. Provide ONE example of each layer. Do not include the examples given in class, from the textbook, or in the zunick.com lecture notes. [2 points]
3. The various kingdoms and domains represent the “horizontal” layers of biology. List the three domains and state one or two major facts about each one. [2 points]
4. Suppose you wanted to determine if antibiotics would be a cure for HIV, which is a virus. Write a hypothesis for this experiment in “if, then” format. Just so you are aware, antibiotics could NEVER cure HIV because they only work on bacteria! [1 point]
5. Suppose that you go to the doctor because you may be sick. The doctor is going to check you out and record some data to see what is wrong with you. She is going to write down both quantitative and qualitative observations. Make up 3 examples of EACH type that your doctor could record. [2 points]