Quiz Review
<u>Introduction to Biology</u>

Part I – What is Science

1. The three important parts of science are _____   _____ _____

2. For each of the following, label as Hypothesis Driven Science (H) or Discovery Science (D)

    a. Based on observations and measurements   _____

    b. Describes Nature   _____

    c. Describes what you see   _____

    d. Explains Nature   _____

    e. Modern Science   _____

    f. More Flexible   _____

    g. More Structured   _____

    h. Relies on hypotheses   _____

    i. Relies on Scientific Method   _____

    j. Traditional Science   _____

    k. Uses if then logic   _____

3. Label each of the following as hypothesis (H), theories (T) and laws (L)

    a. Can be disproven   _____   _____   _____

    b. Cannot be Proven   _____   _____   _____

    c. Describes nature   _____

    d. Explains nature   _____   _____

    e. Tentative   _____

    f. Testable   _____

    g. Well-accepted   _____   _____

    h. Well-tested with lots of data   _____   _____

4. Define Biology

5. List the five unifying themes of biology

Part II – Characteristics of Living Things

6. What are the 3 characteristics of living things that are NOT unifying themes of biology?

7. Why is a virus not considered a living thing

Part III – Unifying Themes of Science

8. Label each of the following as Direct or Indirect Observation
   a. Accurate   _____
   b. Fast   _____
   c. Inexpensive   _____
   d. Lots of time and money   _____
   e. Not as accurate   _____
   f. Uses 5 senses   _____

9. Define System

10. Define Open System and give an example

11. Define Closed System and give an example

12. Why do scientists classify things

13. What is the correct way to classify things

14. Define model

15. Define scale

16. Patterns are used to make _____