BIO 130 MODULE 1 APPLICATION QUESTIONS   Name: ____Gabrielle Lowe   BIO130 Section:4 8/13/20_____

1.   State THREE characteristics of a good hypothesis. (25) 1. Define the problem 2. Propose Solution 3. Resolution
2.
3.   The following statements are found in a student's notebook. Identify each of the following as an observation (O), a hypothesis (H), or an experiment (E): (25)

a. "Today I placed two tomato seedlings in the garden, and two more in a closet. I will give all the plants the same amount of water and fertilizer."___(E)_____

b. "After 50 days, the tomato plants in the garden are 3 ft high with green leaves. The plants in the closet are 8 in. tall and yellow."___(O)_____

c. "Tomato plants need sunlight to grow. __(H)_____

3. The five characteristics of life are: A. Metabolic Process B. Responsive Process   C. Generative Process D. Control Process   E. Unique Structural Organization. Read the following statements and identify each one as one of the 5 life processes. You may indicate your answer by writing the letter A, B, C, D, or E beside each statement. (25)

1. A baby grows into a young adult____C_____.

2. Eating and digesting a hamburger. __A_____

3. Producing energy within the body using food and oxygen. __E_____

4 . Forming of a complex multicellular organism from cells.   __E_____

5. A cut stem of a strawberry plant grows into a new strawberry plant. __B_____

6. Poor performance in coursework leads to poor grades.   __B_____

7. Trapping sunlight energy to produce sugar. ____C_____

8. Exposure to sun causes sweating.   ___B_____

9. Several organs producing Organ System. __E_____

10. Change in the heritable characteristics of biological populations over successive generations._____C____

4. Define Pseudoscience. Give one example. (25)

Collection of beliefs or practices mistakenly regarded as being based on scientific method