

1. State THREE characteristics of a good hypothesis. (25)
2. 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." _____

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." _____

c. "Tomato plants need sunlight to grow." _____

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 _____.
2. Eating and digesting a hamburger. _____
3. Producing energy within the body using food and oxygen. _____
4. Forming of a complex multicellular organism from cells. _____
5. A cut stem of a strawberry plant grows into a new strawberry plant. _____
6. Poor performance in coursework leads to poor grades. _____
7. Trapping sunlight energy to produce sugar. _____
8. Exposure to sun causes sweating. _____
9. Several organs producing Organ System. _____
10. Change in the heritable characteristics of biological populations over successive generations. _____

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