1. State THREE characteristics of a good hypothesis. (25)
   - Testable, a good hypothesis must be testable, that's the only way you can have good evidence to back up your proposed explanation.
   - Dependable, a good hypothesis must be dependable and have dependable results because that the only way you can prove your point.
   - Specified, a hypothesis must be very specific from top to bottom ,such as the formula, result, and etc in order to get your point across.

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."_____(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. ___(E)_____

   3. Producing energy within the body using food and oxygen. ___(A)_____

   4 . Forming of a complex multicellular organism from cells. _____(D)___

   5. A cut stem of a strawberry plant grows into a new strawberry plant. ____(B)_____

   6. Poor performance in coursework leads to poor grades. __(E)_____

   7. Trapping sunlight energy to produce sugar. _____(E)_____

   8. Exposure to sun causes sweating. ____(_A)____

   9. Several organs producing Organ System. _____A____

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

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

It is a