Assignment 2

The following questions require active participation in class and understanding of concepts covered in Unit 4.

1. Select the correct option that best completes the statement.
   a. Only statement (A) is correct.
   b. Only statement (B) is correct.
   c. Both statements are correct.
   d. Both statements are incorrect.

2. A well-drawn sketch can be defined as:
   a. A detailed pencil drawing that shows all of the necessary information.
   b. A quick, rough sketch that shows the general shape and appearance.
   c. A technical drawing that includes measurements and dimensions.
   d. None of the above.

3. The Plant Location A and B are on a map with four letters. The map is not to scale and the letters are not to be used for measurement. To determine the best Plant Location, how many measurements must be made?
   a. 1
   b. 2
   c. 3
   d. 4

4. Match the following Equipment Type with its corresponding Major Task in the process.
   - Agitation/Dissolution
     - Temperature Control
   - Particle Sizing
     - Particle Sizing/Extrusion
   - Ultrafiltration
     - Filtration/Exudation
   - Centrifugation
     - Centrifugation/Dissolution

5. Which of the following statements is true about the process heat exchanger?
   a. It is used to increase the temperature of the process fluid.
   b. It is used to decrease the temperature of the process fluid.
   c. It is used to increase the pressure of the process fluid.
   d. It is used to decrease the pressure of the process fluid.

6. The correct answer is placed in the blank.