Pre-Lab Quiz: Enzyme Action

1. In the reaction: H-R-0H + H₂O₂ → R-0 + 2 H₂O if the enzyme peroxidase is involved:
   a. What are the substrates?
   b. What are the products?

2. The colorless molecule guaiacol reacts with hydrogen peroxide (H₂O₂) to form a colored compound. What is the purpose of this reaction in our experiment and how is the spectrophotometer involved?

3. What do you think will happen to the rate of reaction in question #1 if the amount of enzyme is increased?

4. What do you think will happen to the rate of reaction in question #1 if the amount of substrate is increased?

5. What do you think will happen to the rate of reaction in question #1 if the temperature of the reaction is increased to 100°C?