

Problem Set 24: Enzymes

1. What is the active site of an enzyme?

2. What is a substrate?

3. How are vitamins sometimes involved with enzymes?

4. The first step of alcohol metabolism requires alcohol dehydrogenase to convert ethanol into ethanal. This reaction will not take place without NAD^+ turning into NADH/H^+ . Answer the following questions regarding this reaction:
 - a. What is the enzyme in this reaction?
 - b. What is the substrate?
 - c. What is the product?
 - d. What is the coenzyme?
 - e. Is the coenzyme oxidized or reduced in this reaction?
 - f. What class of enzymes does the enzyme in this reaction belong to?