## **Enzyme Review Sheet**

Name:

## **Short Answer**

- 1) Why are enzymes so important to organisms- what do they do for the organism? \*\*
- 2) Do you think an enzyme, that is use to a pH of 10, would work properly in a pH of 2? Why? \*\*
- 3) Do you think an enzyme that is used to a temperature of 35°C would work in an environment with a temperature of 90°C? Why? \*\*

**Identify:** Write an "E" for enzyme if the characteristic describes an enzyme of "N" for non enzyme if it is NOT an enzyme characteristic.

4) \*\* can be used again & again

5) \*\* catalase

6) \*\* can only be used ONCE

7) \*\* only works with one substrate

8) \*\* bleach

9)\*\* speeds up reactions

10) \*\* works with any substrate

11) \*\* a catalyst

12) \*\* hydrochloric acid

Labeling: In the diagram below, label the substrate, enzyme, active site, substrate-enzyme complex and the product.









15) Letter C is \*\*

16) Letter D is \*\*

- 17) Letter E is \*\*
- 18) Is this enzyme breaking apart or putting together the substrate? \*\*
- 19) How do you know that letter A is an enzyme? What characteristic of an enzyme is shown in the diagram?

## Fill in the blank

- 20) The substrate must fit perfectly with an enzyme's \*\*.
- 21) The way an enzyme fits with a substrate is known as the\*\* and key fit.
- 22) Will a reaction occur if the enzyme's active site is damaged? Why? \*\*
- 23) How do you think an enzyme's active site can become damaged? \*\*