

Name _____

ENZYMES

2-4

MULTIPLE CHOICE

Circle the letter of the answer(s) that correctly complete the sentence.

THERE MAY BE MORE THAN ONE CORRECT ANSWER.

Reactants in an enzyme catalyzed chemical reaction are called _____

- A. polymers
- B. products
- C. substrates
- D. organics

Macromolecule that can act as enzymes are _____.

- A. carbohydrates
- B. lipids
- C. Nucleic acids
- D. proteins

Enzymes speed up chemical reactions by _____.

- A. decreasing the activation energy
- B. increasing the activation energy
- C. making more hydrogen bonds
- D. changing the pH of the solution

Proteins (like enzymes) unwind or _____ when placed in extreme pH or temperature conditions.

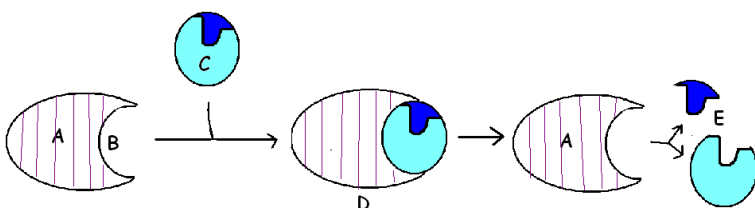
- A. desensitize
- B. polymerize
- C. depolarize
- D. denature

Enzymes are _____

- A. used up during chemical reactions
- B. unchanged during chemical reactions and reusable

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MATCH EACH COMPONENT IN THE ENZYME CATALYZED REACTION BELOW WITH ITS NAME BY WRITING THE LETTER ON THE LINE PROVIDED.



- _____ PRODUCTS
- _____ SUBSTRATE
- _____ ACTIVE SITE
- _____ ENZYME-SUBSTRATE COMPLEX
- _____ ENZYME

Name two (2) environmental conditions that can cause proteins (enzymes) to change their shape.

Many genetic diseases result from the production of enzymes that are not shaped correctly. How does changing in an enzyme's shape cause it to work poorly or not at all?

DNA polymerase is a molecule found in all cells. Judging by its name, do you think it is an enzyme? YES NO HOW CAN YOU TELL?

Judging by its name, what do you think DNA polymerase does?
