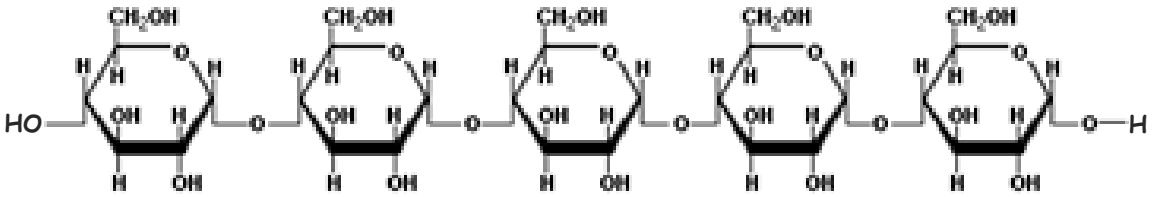
NAME:

PERIOD:

1C Mastery Quiz ENZYMES

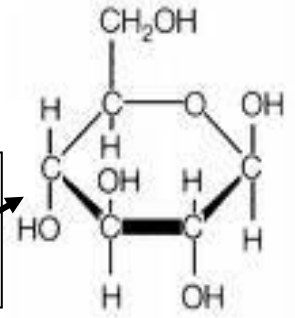


1C Total:

+_____/**20**

AMYLASE

5 of these



The reaction above is an example of:

1. Dehydration Synthesis (or) Hydrolysis (**circle one**)
2. Endothermic (or) Exothermic (**circle one**)

For the reaction shown above:

3. Draw a <u>circle</u> around the **substrate**.
4. Draw a <u>rectangle</u> around the **product**.
5. Draw a <u>triangle</u> around the **enzyme**.

+_____/5

For the reaction shown above, provide the specific NAME of the substrate, enzyme, and product. (Good Review for the unit exam)

6. Substrate: _____

7. Enzyme: _____

8. Product: _____

+_____/3

9. **In the space below, describe specifically what is happening in the reaction shown above.**

+_____/2

Page 1 Total

+_____/10

10. In the space below, identify ONE general factor which could limit the effectiveness of the enzyme in the reaction shown on the previous page. **EXPLAIN WHY** this factor would inhibit the function of the enzyme.

+_____/2

11. What is **denaturation?** Specifically describe what effect denaturation has on enzyme structure.

+_____/2

12. In the chemical reaction on the first page, would you categorize the enzyme as a **substrate**, **product**, or **neither** ? **EXPLAIN WHY.**

+_____/2

13. What is an exergonic (exothermic) reaction?? Explain the effect an enzyme may have on this reaction? You must DISCUSS ENERGY in your answer and you must also SKETCH A GRAPH to support your answer.

+_____/4

Page 2 Total

+_____//10