

Name: Date:

2. b) Explain what would happen if a substrate molecule with a different shape to the enzyme came into contact with the enzyme's active site. [2]

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- c) Explain what would happen to a substrate molecule if it came into contact with an enzyme's active site that matched its specific shape. [3]

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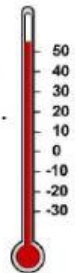
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- d) There are many factors that affect the rate of enzyme-catalyzed reactions, including temperature. Name two other factors. [2]

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- e) i) What would happen to an enzyme if the temperature and pH changed significantly beyond the enzyme's optimum level? [2]

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- ii) How would this affect enzyme activity? [1]

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