

Enzymes Quiz PDF

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Which part of the enzyme binds to the substrate?
○ Inhibitor site
○ Allosteric site
 Regulatory site
○ Active site
Which model describes the enzyme's active site changing shape to fit the substrate?
○ Lock and Key Model
○ Competitive Model
○ Non-competitive Model
○ Induced Fit Model
How does feedback inhibition help regulate metabolic pathways in cells?
Which statements about enzyme inhibitors are true? (Select all that apply)
Competitive inhibitors bind to the active site
Competitive inhibitors bind to the active site Non-competitive inhibitors bind to the active site
Competitive inhibitors bind to the active site Non-competitive inhibitors bind to the active site Allosteric inhibitors change enzyme shape
Competitive inhibitors bind to the active site Non-competitive inhibitors bind to the active site

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What happens to an enzyme when it is denatureD?



 It becomes more active It binds more substrates It speeds up reactions It changes shape and loses function 					
Which of the following factors can affect enzyme activity? (Select all that apply)					
 □ Temperature □ pH □ Substrate concentration □ Enzyme concentration 					
Which type of enzyme catalyzes the transfer of functional groups?					
○ Hydrolases○ Oxidases○ Isomerases○ Transferases					
Explain how enzymes lower the activation energy of a chemical reaction.					
Discuss how temperature can both positively and negatively affect enzyme activity.					

Which enzyme type is primarily involved in oxidation-reduction reactions?



○ Hydrolases	
○ Transferases	
○ Isomerases	
Oxidases	
In feedback inhibition, what inhibits the enzyme activity?	
○ Substrate	
○ Intermediate product	
○ External inhibitor	
○ End product	
What is allosteric regulation, and how does it influence enzyme activity?	
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Provide examples of how enzymes are used in medical applications.	
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What are the effects of enzyme denaturation? (Select all that apply)	
☐ Loss of enzyme activity	
Permanent change in shape	
☐ Increased substrate binding	
☐ Enhanced reaction rate	

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Which enzymes are involved in rearranging atoms within a molecule? (Select all that apply)



Hydrolases
☐ Isomerases
Oxidases
☐ Transferases
Describe the role of the active site in enzyme specificity.
What is the primary role of enzymes in biological systems?
O Provide energy
○ Serve as biological catalysts
○ Store genetic information
Act as structural components
What are the value of annumes in industrial annihings (Colort all that annih)
What are the roles of enzymes in industrial applications? (Select all that apply)
☐ Brewing
☐ Cheese-making
☐ Data storage
☐ Biofuel production
Which factor does NOT affect enzyme activity?
○ Temperature
Substrate concentration
Ocolor of the enzyme
○ pH
Which of the following are characteristics of enzymes? (Select all that apply)
☐ They are consumed in reactions
☐ They are proteins
☐ They lower activation energy

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