

A2 Biology

Revision Questions & Answers

Name: _____ Date: _____	
1. Define the following terms:	
• Protein	A long chain of amino acids joined by peptide bonds. It is the primary structure of a protein that determines its function.
• Enzyme	A biological catalyst that speeds up chemical reactions in the body without being used up.
• Active site	The specific region of an enzyme where the substrate binds and the reaction takes place.
• Substrate	The substance that an enzyme acts upon.
• Product	The substance that is formed from the reaction of the substrate.
2. Explain the lock and key model of enzyme action.	The lock and key model suggests that the active site of an enzyme is shaped like a lock, and the substrate is shaped like a key. Only the correct key (substrate) can fit into the lock (active site) to start the reaction.
3. Describe the effect of temperature on enzyme activity.	Enzyme activity increases with temperature up to an optimum point, after which it decreases. This is because higher temperatures increase the kinetic energy of molecules, leading to more frequent collisions, but temperatures above the optimum denature the enzyme.
4. Describe the effect of pH on enzyme activity.	Enzyme activity is highest at a specific pH (the optimum pH) and decreases as the pH moves away from this optimum. Extreme pH levels can denature the enzyme by altering the shape of its active site.

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Richard Bailey



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Table of Contents Nelson Thornesqa A2 Biology Exam Question Answers

1. Understanding the eBook Nelson Thornesqa A2 Biology Exam Question Answers
 - The Rise of Digital Reading Nelson Thornesqa A2 Biology Exam Question Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Thornesqa A2 Biology Exam Question Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nelson Thornesqa A2 Biology Exam Question Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Thornesqa A2 Biology Exam Question Answers
 - Personalized Recommendations
 - Nelson Thornesqa A2 Biology Exam Question Answers User Reviews and Ratings
 - Nelson Thornesqa A2 Biology Exam Question Answers and Bestseller Lists
5. Accessing Nelson Thornesqa A2 Biology Exam Question Answers Free and Paid eBooks
 - Nelson Thornesqa A2 Biology Exam Question Answers Public Domain eBooks
 - Nelson Thornesqa A2 Biology Exam Question Answers eBook Subscription Services
 - Nelson Thornesqa A2 Biology Exam Question Answers Budget-Friendly Options

6. Navigating Nelson Thornesqa A2 Biology Exam Question Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Nelson Thornesqa A2 Biology Exam Question Answers Compatibility with Devices
 - Nelson Thornesqa A2 Biology Exam Question Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nelson Thornesqa A2 Biology Exam Question Answers
 - Highlighting and Note-Taking Nelson Thornesqa A2 Biology Exam Question Answers
 - Interactive Elements Nelson Thornesqa A2 Biology Exam Question Answers
8. Staying Engaged with Nelson Thornesqa A2 Biology Exam Question Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nelson Thornesqa A2 Biology Exam Question Answers
9. Balancing eBooks and Physical Books Nelson Thornesqa A2 Biology Exam Question Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nelson Thornesqa A2 Biology Exam Question Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nelson Thornesqa A2 Biology Exam Question Answers
 - Setting Reading Goals Nelson Thornesqa A2 Biology Exam Question Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nelson Thornesqa A2 Biology Exam Question Answers
 - Fact-Checking eBook Content of Nelson Thornesqa A2 Biology Exam Question Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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