

Solutions to Practice Problems for Biochemistry, Session 5: Biochemical Reactions, Enzymes and ATP

Question 1

You are looking at the following biological reactions that are catalyzed by specific enzymes as shown below.



Note:

- In Reaction #1, Enzyme E1 catalyzes the conversion of Compound A to Compound B. This reaction is truly reversible and the reverse reaction is as likely as the forward reaction.
- In Reaction #2, Enzyme E2 catalyzes an energy requiring reaction that uses Compounds C and D as substrates to produce Compound E.
- In Reaction #3, Enzyme E3 catalyzes an energy producing reaction that converts Compound F to Compound G.

a) Draw the energy profiles of reactions #1, #2 and #3 on the axes given below. On the diagram, please label the reactants and the products.



b) You decide to reproduce Reaction #2 in three test tubes. You may assume that this biological reaction occurs at a 37°C and a pH of 7.4 under normal conditions.

- **Test tube #1:** You perform the reaction at 70°C and a pH of 7.4 and observe that no Compound E is produced. When the temperature is brought to 37°C, Compound E is produced at a rate similar to normal condition.
- **Test tube #2:** You perform the reaction at 37°C and a pH of 10.4 and observe that no Compound E is produced. When the pH is brought to 7.4, Compound E is produced at a rate similar to normal condition.
- **Test tube #3:** You perform the reaction at 37°C and a pH of 7.4 in the presence of proteases and observe that no Compound E is produced. The effect of protease treatment persists even after its removal from reaction mixture.

Explain the effect of the changed reaction parameters in each of the above test tubes on structure and function of Enzyme E2.

Reaction parameters	Effect on Enzyme E2	Is the effect reversible/ irreversible?
70°C in test tube #1	Denaturation/Unfolding	Reversible – Can refold when temperature lowered back to 37°C
10.4 pH in test tube #2	Denaturation/Unfolding	Reversible - Can refold when pH is lowered back to 7.4
Protease in Test tube #3	Digestion/Degradation	Irreversible - the peptide bonds that hold the primary amino acid sequence of the enzyme are disrupted resulting in individual amino acids.

Biochemistry A Problems Approach

Yijin Wang



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Table of Contents Biochemistry A Problems Approach

1. Understanding the eBook Biochemistry A Problems Approach
 - The Rise of Digital Reading Biochemistry A Problems Approach
 - Advantages of eBooks Over Traditional Books
2. Identifying Biochemistry A Problems Approach
 - 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 eBook Biochemistry A Problems Approach
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biochemistry A Problems Approach
 - Personalized Recommendations
 - Biochemistry A Problems Approach User Reviews and Ratings
 - Biochemistry A Problems Approach and Bestseller Lists

5. Accessing Biochemistry A Problems Approach Free and Paid eBooks
 - Biochemistry A Problems Approach Public Domain eBooks
 - Biochemistry A Problems Approach eBook Subscription Services
 - Biochemistry A Problems Approach Budget-Friendly Options
6. Navigating Biochemistry A Problems Approach eBook Formats
 - ePub, PDF, MOBI, and More
 - Biochemistry A Problems Approach Compatibility with Devices
 - Biochemistry A Problems Approach Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biochemistry A Problems Approach
 - Highlighting and Note-Taking Biochemistry A Problems Approach
 - Interactive Elements Biochemistry A Problems Approach
8. Staying Engaged with Biochemistry A Problems Approach
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biochemistry A Problems Approach
9. Balancing eBooks and Physical Books Biochemistry A Problems Approach
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biochemistry A Problems Approach
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biochemistry A Problems Approach
 - Setting Reading Goals Biochemistry A Problems Approach
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biochemistry A Problems Approach
 - Fact-Checking eBook Content of Biochemistry A Problems Approach
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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