

Study Guide: Biochemistry exam 1

• Lecture 2:

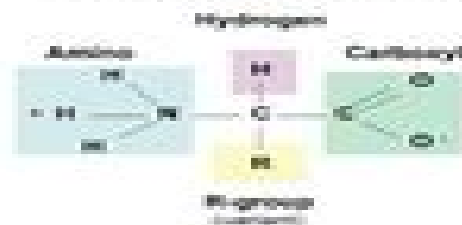
1. Define or describe the "Central Dogma" in relation to the storage & retrieval of genetic information, the creation of proteins and the expression of traits:

- ✦ "Central Dogma" explains the storage, retrieval, & expression of genetic information.
- ✦ Replication: duplication of DNA to make an identical copy.
- ✦ Transcription: reading of a gene & its transcription into RNA.
- ✦ Translation: translation of RNA sequence into the corresponding sequence of amino acids to form a protein.
- ✦ "Information processing": information flow from DNA to protein structure -
 - DNA undergoes replication → transcribed into RNA → RNA translated into a protein → proteins develop into traits.

2. Illustrate and/or describe the general structural, physical and/or chemical characteristics of amino acids.

- ✦ There are 20 standard amino acids.
- ✦ Each amino acid has an amino group, and a carboxyl group joined at the alpha carbon.
- ✦ The "R" group is the unique feature for each amino acid.

Amino Acid Structure



- ✦ There's an O⁻ on the carboxyl group b/c the H⁺ goes to amino-group, making NH₃⁺ at a certain pH.
- ✦ There are 4 main groups of amino acids:
 - **Neutral non-polar:** no charge, hydrophobic
 - **Neutral polar:** no charge, hydrophilic
 - **Acidic:** extra carboxyl in R-group, can be - charged
 - **Basic:** extra amino in R-group, can be + charged.
- ✦ **Charges occur in R groups!**
- ✦ **Amphoteric:** when an amino acid can act as an acid or base (depending on the pH).
- ✦ Amino acids are "zwitterionic" meaning they can carry both a + and - charge on the same molecule.
- ✦ The alpha carbon is "asymmetric" if all 4 attached groups are different.

3. Describe and/or illustrate the titration of an amino acid, including the pI's or pKa's of ionizable groups.

- ✦ Begin titration by adding a base, and watch the pH change.
- ✦ You can increase the pH by adding a base, thus giving COOH the time to give up its proton.
- ✦ pKa reflects the dissociation of an acid.
- ✦ pI is a point where 100% of the molecule has a 0 charge.

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Table of Contents Essential Biochemistry Study Guide

1. Understanding the eBook Essential Biochemistry Study Guide
 - The Rise of Digital Reading Essential Biochemistry Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Essential Biochemistry Study Guide
 - 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 Essential Biochemistry Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Essential Biochemistry Study Guide
 - Personalized Recommendations
 - Essential Biochemistry Study Guide User Reviews and Ratings
 - Essential Biochemistry Study Guide and Bestseller Lists
5. Accessing Essential Biochemistry Study Guide Free and Paid eBooks
 - Essential Biochemistry Study Guide Public Domain eBooks
 - Essential Biochemistry Study Guide eBook Subscription Services
 - Essential Biochemistry Study Guide Budget-Friendly Options
6. Navigating Essential Biochemistry Study Guide eBook Formats

- ePub, PDF, MOBI, and More
- Essential Biochemistry Study Guide Compatibility with Devices
- Essential Biochemistry Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Essential Biochemistry Study Guide
 - Highlighting and Note-Taking Essential Biochemistry Study Guide
 - Interactive Elements Essential Biochemistry Study Guide
- 8. Staying Engaged with Essential Biochemistry Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Essential Biochemistry Study Guide
- 9. Balancing eBooks and Physical Books Essential Biochemistry Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Essential Biochemistry Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Essential Biochemistry Study Guide
 - Setting Reading Goals Essential Biochemistry Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Essential Biochemistry Study Guide
 - Fact-Checking eBook Content of Essential Biochemistry Study Guide
 - 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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