Fundamentals of Amino Acids and Proteins

Biochemistry · Answer Key · 10 Questions

1. What type of reaction forms a peptide bond between two amino acids?

A) Hydrolysis
B) Condensation
C) Oxidation
D) Reduction

2. Which group of amino acids is typically found in the interior of a folded protein?

A) Polar
B) Hydrophilic
C) Nonpolar
D) Acidic

3. Which of the following is classified as a basic (positively charged) amino acid?

A) Aspartic acid
B) Glutamic acid
C) Lysine
D) Serine

4. What is the primary function of the R group in an amino acid?

A) Determines identity and properties
B) Forms the backbone
C) Acts as a catalyst
D) Regulates pH only

5. Which amino acid is considered essential in infants but typically non-essential in adults?

A) Arginine
B) Histidine
C) Leucine
D) Methionine

6. Which of the following is an aromatic amino acid?

A) Alanine
B) Glycine
C) Tryptophan
D) Cysteine

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7. What does a pH value equal to the pKa of a functional group indicate?

A) The group is fully protonated
B) The group is fully deprotonated
C) The group is 50% protonated and 50% deprotonated
D) The group is neutral

8. Which element is found in the side chains of methionine and cysteine?

A) Nitrogen
B) Phosphorus
C) Sulfur
D) Iron

9. What is the structure formed by a linear chain of amino acids linked by peptide bonds?

A) Primary structure
B) Secondary structure
C) Tertiary structure
D) Quaternary structure

10. Which amino acid contains an imino group instead of a standard amino group?

A) Proline
B) Alanine
C) Valine
D) Glycine

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