Fundamentals of Amino Acids and Proteins

Biochemistry · Answer Key · 10 Questions

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

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

2. Which group of amino acids is typically found in the interior of proteins?

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

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 are the three aromatic amino acids?

A) Phenylalanine, Tyrosine, Tryptophan
B) Alanine, Valine, Leucine
C) Serine, Threonine, Cysteine
D) Lysine, Arginine, Histidine

5. Which amino acid contains an imino group?

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

6. At a pH value equal to the pKa of a functional group, what is the state of the group?

A) 100% protonated
B) 100% deprotonated
C) 50% protonated and 50% deprotonated
D) Non-reactive

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

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

8. Sulfur-containing amino acids include:

A) Methionine and Cysteine
B) Serine and Threonine
C) Alanine and Glycine
D) Lysine and Arginine

9. What functional group is found at the start of an amino acid chain alongside the carboxyl group?

A) Hydroxyl group
B) Amino group
C) Methyl group
D) Phosphate group

10. Which of the following is an acidic (negatively charged) amino acid?

A) Arginine
B) Aspartate
C) Histidine
D) Glutamine

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