

6.

Molecules that bear charged groups of opposite polarity are known as

- A. zwitterions
- B. ambions
- C. ion conversion
- D. amphions

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7.

What is the product of the catabolic breakdown of Arginine?

- A. Alpha-ketoglutarate
- B. Fumarate
- C. Oxaloacetate
- D. Succinate

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8.

Which amino acids would most likely reside in the membrane-anchoring domain of a membrane embedded protein?

- A. Isoleucine, valine and phenylalanine
- B. Phenylalanine, valine, and aspartate
- C. Leucine, threonine, and lysine
- D. Lysine, arginine and histidine

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9.

An essential amino acid is one that

- A. is essentially easy to synthesize
- B. is essential to flagella motion
- C. the body cannot synthesize
- D. the body can synthesize under essential conditions

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10.

D-Alanine and L-Alanine are technically known as

- A. anomers
- B. enantiomers
- C. epimers
- D. polymer

11.

Which of the following pairs of amino acids would carry a negative charge on their side chain at pH 8.0?

- A. Asparagine & Glutamine
- B. Leucine & Glycine
- C. Histidine & Lysine
- D. Aspartate & Glutamate

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12.

In a polypeptide average mass of an amino acid residue is

- A. 110 daltons
- B. 118 daltons
- C. 80 daltons
- D. 150 daltons

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13.

Which pair of amino acids absorbs the most UV light at 280 nm?

- A. Threonine & Histidine
- B. Trp & Tyrosine
- C. Cystein & Asparagine
- D. Phenylalanine & Proline

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14.

Which of the following is a nonstandard amino acid?

- A. Cysteine      B. Isoleucine
- C. Hydroxyproline      D. Histidine

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15.

Which of the following is an essential amino acid?

- A. Tryptophan
- B. Methionine
- C. Lysine
- D. All of these

16.

Protein fluorescence arises primarily from which residue?

- A. Arginine      B. Tryptophan
- C. Tyrosine      D. Phenylalanine

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17.

Which of the following amino acid is known as half-cystine residue?

- A. Cysteine      B. Isoleucine
- C. Valine      D. Histidine

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18.

Which of the following is not an essential amino acid?

- A. Aspartic acid
- B. Glutamic acid
- C. Glycine
- D. All of these

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19.

Which of the following is not a sensible grouping of amino acids based on their polarity properties?

- A. Ala, Leu, and Val
- B. Arg, His, and Lys
- C. Phe, Trp, and Tyr
- D. Asp, Ile, and Pro

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20.

Proteins and macromolecular structures take on their higher order structures

- A. by self-assembly
- B. with the help of molecular chaperons
- C. with the help of precursor sequences that are removed from the final structures
- D. all of the above