

PROPERTIES OF AMINO ACIDS – CONCEPT TEST

QUESTION 1

Most amino acids are generally very soluble in aqueous solutions because:

- A. they have a symmetrical shape
- B. they contain a polar Z side group
- C. they contain a polar amino group
- D. they contain a polar amide group

QUESTION 2

Which of the following are some of the common properties of amino acids?

- A. insoluble and very high molecular masses
- B. soluble and colourless
- C. insoluble and low molecular mass
- D. soluble and very high molecular mass

QUESTION 3

Essential amino acids are those that:

- A. are reassembled from other amino acids
- B. cannot be reassembled from other amino acids
- C. are directly absorbed into the liver
- D. are broken down to make cellulose

QUESTION 4

Amino acids can be most accurately described as

- A amphoteric
- B acids
- C bases
- D diprotic

QUESTION 5

When electrolysed, zwitterions in an aqueous solution have a tendency to:

- A. migrate to the positively charged electrode
- B. migrate to the negatively charged electrode
- C. stay at an equal distance from both electrodes
- D. change form to become acidic

QUESTION 6

Amino acids are very soluble because they can

- A form hydrogen bonds with water
- B form ion-dipole bonds with water
- C form ion-dipole and hydrogen bond with water
- D are amphoteric

QUESTION 7

Which of the following is not a property of amino acids?

- A they are a type of buffer
- B they are non volatile
- C they can form crystalline solids.
- D they can be stored in the body

SOLUTIONS

QUESTION 1 Answer is C

QUESTION 2 Answer is B

QUESTION 3 Answer is B

QUESTION 4 Answer is A

QUESTION 5 Answer is C

QUESTION 6 Answer is C

QUESTION 7 Answer is D