<Q>Which of the following amino acids is not chiral?

<S>Y

<C>Proline.

<C+>Glycine.

<C>Alanine.

<C>Lysine.

<Q>Which of the following amino acids is a precursor of Thyroxine?

<S>Y

<C>Tryptophan.

<C>Threonine.

<C+>Tyrosine.

<C>Lysine.

<Q>Which of the following is a tripeptide?

<S>Y

<C>Carnosine.

<C+>Glutathione.

<C>Oxytocin.

<C>Enkephalin.

<Q>What is the net charge on the peptide :Trp-His-Asp-Ala at pH 12?

<S>Y

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- <C>aspartic acid
- <Q>Which of the following is a cyclic peptide?
- <S>Y
- <C>Carnosine.
- <C>Glutathione.
- <C+>Oxytocin.
- <C>Enkephalin.
- <Q>The isoelectric point of an amino acid is the point at which the molecule:
- <S>Y
- <C+>Is polar with an overall zero charge
- <C>Is polar with an overall negative charge
- <C>Is polar with an overall positive charge
- <C>Is nonpolar
- <Q>Which of the following statements about glutathione is NOT CORRECT?
- <S>Y
- <C>It contains a gamma-glutamyl residue
- <C+>It acts as an oxidizing agent in the cell
- <C>The reduced form has a -SH group
- <C>The oxidized form contains an S-S bond

<Q>What is the net charge on the peptide :Phe-Glu-Lys-Met at pH 1?

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<S>Y

<C>Zero.

< C > +1

<C>-1

< C+>+2

<Q>How many moles of OH- you need to completely titrate one mole of glutamic acid?

<S>Y

<C>1

<C>2

< C +> 3

<C>4

<Q>Which of the following is a pentapeptide (5 amino acids)?

<S>Y

<C>Carnosine.

<C>Glutathione.

<C>Oxytocin.

<C+>Enkephalin.

<Q>How many inflection points are there in the titration curve of valine?

- <C>A special type of amide bond
- <C>A very stable type of amide bond
- <C>Formed when water is split out from an amino group and a carboxylic acid
- <Q>Which of the following is a dipeptide?
- <S>Y
- <C+>Aspartame.
- <C>Glutathione.
- <C>Oxytocin.
- <C>Enkephalin.
- <Q>What is the net charge on the peptide :Phe-His-Asp-Lys at pH 12?
- <S>Y
- <C>Zero.
- <C>+1
- <C+>-2
- <C>+2
- <Q>How many inflection points are there in the titration curve of histidine?
- <S>Y
- <C>1
- <C>2
- <C+>3

<C>4

<Q>Which of the following amino acids has a -CONH2 group in its side chain?

<S>Y

<C+>glutamine

<C>glutamic acid

<C>tyrosine

<C>lysine

<Q>Which of the following amino acid pairs are polar?

<S>Y

<C>Val and Asp

<C+>Arg and Glu

<C>Leu and Met

<C>Ile and Lys

<Q>Which amino acid has a buffering action at physiological pH?

<S>Y

<C>Glutamic Acid

<C+>Histidine

<C>Isoleucine

<C>Serine

- <Q>Which of the following amino acids is a precursor of Thyroxine?
- <S>Y
- <C>Tryptophan.
- <C>Threonine.
- <C+>Tyrosine.
- <C>Lysine.
- <Q>Which of the following is a tripeptide?
- <S>Y
- <C>Carnosine.
- <C+>Glutathione.
- <C>Oxytocin.
- <C>Enkephalin.
- <Q>During titration with a strong base histidine can exist in:
- <S>Y
- <C>One ionic form.
- <C>Two ionic forms.
- <C>Three ionic forms.
- <C+>Four ionic forms.
- <Q>Which of the following amino acids is uncommon?

- <C>at very high pH
- <C>when the molecule carries a net negative charge
- <C>when the molecule carries a net positive charge
- <Q>Which of the following amino acids has hydrophobic (non-polar) side chain?
- <S>Y
- <C+>Val.
- <C>Glu.
- <C>Cys.
- <C>Ser.
- <Q>During titration with a strong base glycine can exist in:
- <S>Y
- <C>One ionic form.
- <C>Two ionic forms.
- <C+>Three ionic forms.
- <C>Four ionic forms.
- <Q>The peptide bond is which of the following?
- <S>Y
- <C+>an amide bond
- <C>an ester bond
- <C>an ether bond

<C>an amine bond

<Q>Disulfide bridges can form in proteins ______.

<S>Y

<C>only between cysteine residues side-by-side in the protein sequence

<C+>between cysteine residues that are close in three-dimensional space, but not necessarily

close in the primary structure

<C>between two cystine residues in proteins

<C>between any two methionines or cysteines

<Q>The amino acids in polypeptide chains which contain sulfur (S) are:

<S>Y

<C>serine

<C>methionine only.

<C>cysteine only.

<C+>cysteine and methionine.

<Q>Glycine is not a stereoisomer because

<S>N

<C>it has no chiral carbon.

<C>it does not form enantiomers.

<C>it does not exist in two non-superimposable mirror-image forms.

<C+>All of the above