

The correct match between Item I and Item II is :

Item I

(A) Ester test

(B) Carbylamine test

(C) Phthalein dye test

Item II

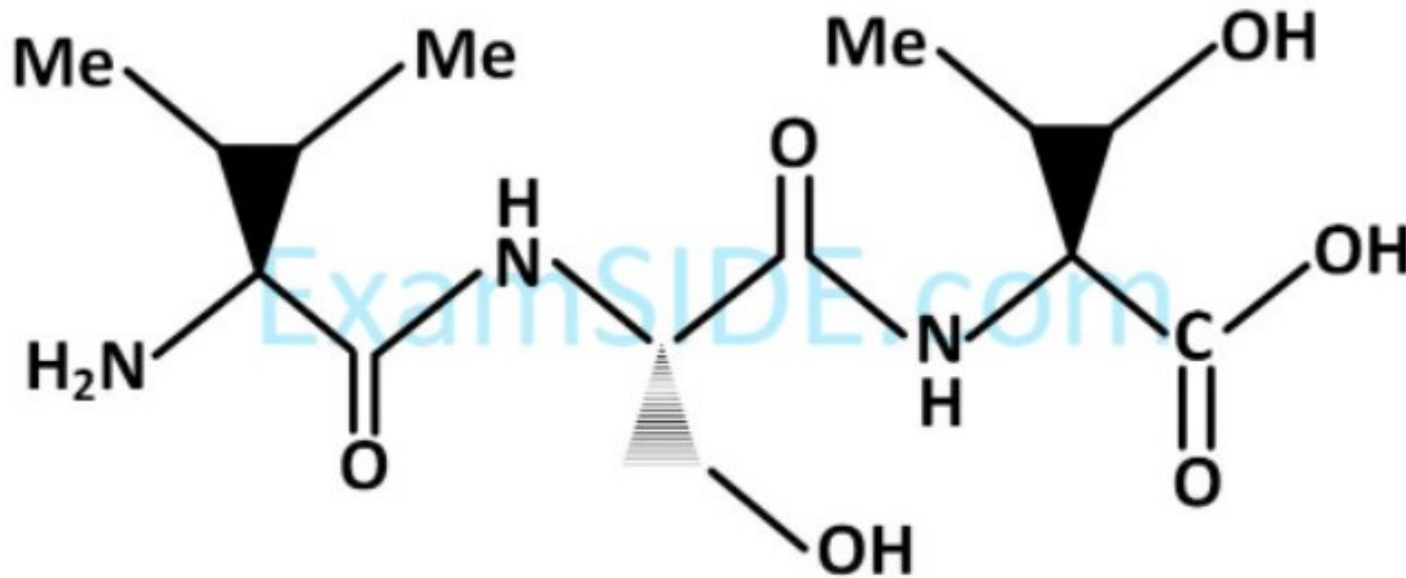
(P) Tyr

(Q) Asp

(R) Ser

(S) Lys

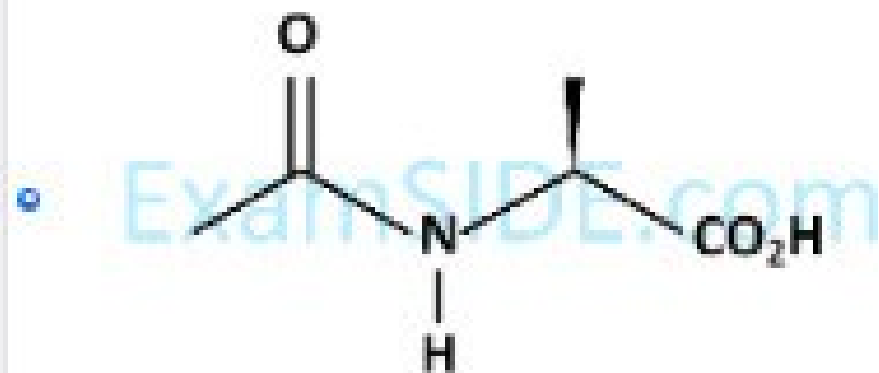
The correct sequence of amino acids present in the tripeptide given below is :



- A Val - Ser - Thr
- B Thr - Ser - Val
- C Leu - Ser - Thr
- D Thr - Ser - Leu

The dipeptide, Gln-Gly, on treatment with CH_3COCl followed by aqueous work up gives :

Which of the following will not exist in zwitter ionic form at pH=7 ?



1 JEE Main 2021 (Online) 31st August Evening Shift

MCQ (Single Correct Answer)

Which of the following is not an example of fibrous protein?

- A** Keratin
 - B** Albumin
 - C** Collagen
 - D** Myosin
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1 JEE Main 2021 (Online) 25th July Morning Shift

MCQ (Single Correct Answer)

The water soluble protein is :

- A Fibrin
 - B Albumin
 - C Myosin
 - D Collagen
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Which one of the following statements is not true about enzymes?

A Enzymes are non-specific for a reaction and substrate.

B Almost all enzymes are proteins.

C Enzymes work as catalysts by lowering the activation energy of a biochemical reaction.

D The action of enzymes is temperature and pH specific.

3 JEE Main 2021 (Online) 18th March Evening Shift

MCQ (Single Correct Answer)

Deficiency of vitamin K causes :

- A Cheilosis

- B Decrease in blood clotting time

- C Increase in blood clotting time

- D Increase in fragility of RBC's

The secondary structure of protein is stabilised by

- A Hydrogen bonding

- B glycosidic bond

- C Peptide bond

- D van der Waals forces

Seliwanoff test and Xanthoproteic test are used for the identification of _____ and _____ respectively.

A ketoses, proteins

B proteins, ketoses

C aldoses, ketoses

D ketoses, aldoses

3 JEE Main 2021 (Online) 24th February Morning Slot

MCQ (Single Correct Answer)

Out of the following, which type of interaction is responsible for the stabilisation of α -helix structure of proteins ?

- A** Covalent bonding
- B** vander Waals forces
- C** Ionic bonding
- D** Hydrogen bonding

Which of the following is not an essential amino acid :

A Valine

B Leucine

C Lysine

D Tyrosine

Which of the following statements is not true about RNA?

- A It controls the synthesis of protein

- B It is present in the nucleus of the cell

- C It usually does not replicate

- D It has always double stranded α -helix structure

1 JEE Main 2019 (Online) 9th April Evening Slot

MCQ (Single Correct Answer)

The peptide that gives positive ceric ammonium nitrate and carbylamine tests is :

A Ser-Lys

B Asp-Gln

C Gln-Asp

D Lys-Asp

Among the following compounds most basic amino acid is -

- A Lysine
- B Asparagine
- C Histidine
- D Serine

Which of the following tests cannot be used for identifying amino acids?

A Ninhydrin test

B Barfoed test

C Xanthoproteic test

D Biuret test

4 JEE Main 2019 (Online) 9th January Morning Slot

MCQ (Single Correct Answer)

The increasing order of pka of the following amino acids in aqueous solution is :

Gly Asp Lys Arg

A Asp < Gly < Arg < Lys

B Gly < Asp < Arg < Lys

C Asp < Gly < Lys < Arg

D Arg < Lys < Gly < Asp

4 JEE Main 2017 (Online) 8th April Morning Slot

MCQ (Single Correct Answer)

Among the following, the essential amino acid is :

A Alanine

B Valine

C Aspartic acid

D Serine

2 JEE Main 2016 (Online) 10th April Morning Slot

MCQ (Single Correct Answer)

Observation of "Rhumann's purple" is a confirmatory test for the presence of :

A Reducing sugar

B Cupric ion

C Protein

D Starch

Which base is present in RNA but not in DNA?

A Uracil

B Thymine

C Guanine

D Cytosine

Insulin production and its action in human body are responsible for the level of diabetes. This compound belongs to which of the following categories?

A A co-enzyme

B An antibiotic

C An enzyme

D A hormone

Which base is present in RNA but not in DNA?

A Uracil

B Thymine

C Guanine

D Cytosine

The presence or absence of hydroxyl group on which carbon atom of sugar differentiates RNA and DNA ?

A 2nd

B 3rd

C 4th

D 1st

The pyrimidine bases present in DNA are

A cytosine and adenine

B cytosine and guanine

C cytosine and thymine

D cytosine and uracil

Which of the vitamins given below is water soluble?

A Vitamin D

B Vitamin E

C Vitamin K

D Vitamin C

Which one of the following bases is **not** present in DNA?

A Cytosine

B Thymine

C Quinoline

D Adenine

Synthesis of each molecule of glucose in photosynthesis involves:

A 10 molecules of ATP

B 8 molecules of ATP

C 6 molecules of ATP

D 18 molecules of ATP