Q1 2021 (01 Sep Shift 2)

A peptide synthesized by the reactions of one molecule each of Glycine, Leucine, Aspartic acid and Histidine will have ____ peptide linkages.

Q2 2021 (31 Aug Shift 2)

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

(1) Keratin

(2) Albumin

(3) Collagen

(4) Myosin

Q3 2021 (31 Aug Shift 1)

Which one of the following compounds contains $\beta - C_1 - C_4$ glycosidic linkage ?

(1) Lactose

(2) Sucrose

(3) Maltose

(4) Amylose

Q4 2021 (27 Aug Shift 2)

Hydrolysis of sucrose gives :

(1) α-D-(-)-Glucose and β-D- $(-)$-Fructose

(2) α-D-(+)-Glucose and $\alpha - D - (-)$-Fructose

(3) α-D-(-)-Glucose and α-D-(+)-Fructose

(4) α-D-(+)-Glucose and $\beta - D - (-)$-Fructose

Q5 2021 (27 Aug Shift 2)

Which one of the following tests used for the identification of functional groups in organic compounds does not use copper reagent?

(1) Barfoed's test

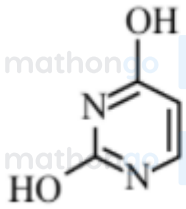
(2) Seliwanoff's test

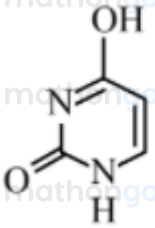
(3) Benedict's test

(4) Biuret test for peptide bond

Q6 2021 (27 Aug Shift 1)

Out of following isomeric forms of uracil, which one is present in RNA ?

(1)


(2)


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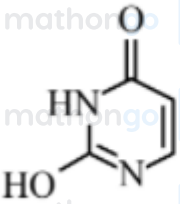

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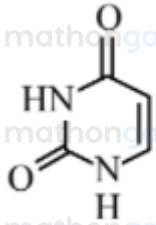


Q7 2021 (26 Aug Shift 2)

Given below are two statements : one is labelled as

Assertion $(\mathbf{A})$ and other is labelled as *Reason* $(\mathbf{R})$.

Assertion $(\mathbf{A})$: Sucrose is a disaccharide and a non-reducing sugar.

Reason $(\mathbf{R})$: Sucrose involves glycosidic linkage between C_1 of β-glucose and C_2 of α-fructose. Choose the most appropriate answer from the options given below :

(1) Both $(\mathbf{A})$ and $(\mathbf{R})$ are true but $(\mathbf{R})$ is not the true explanation of $(\mathbf{A})$

(2) $(\mathbf{A})$ is false but $(\mathbf{R})$ is true.

(3) $(\mathbf{A})$ is true but $(\mathbf{R})$ is false

(4) Both $(\mathbf{A})$ and $(\mathbf{R})$ are true and $(\mathbf{R})$ is the true explanation of $(\mathbf{A})$

Q8 2021 (26 Aug Shift 1)

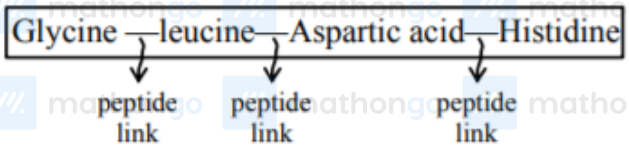
The total number of negative charge in the tetrapeptide, Gly-Glu-Asp-Tyr, at pH 12.5 will be ____. (Integer answer)

Answer Key

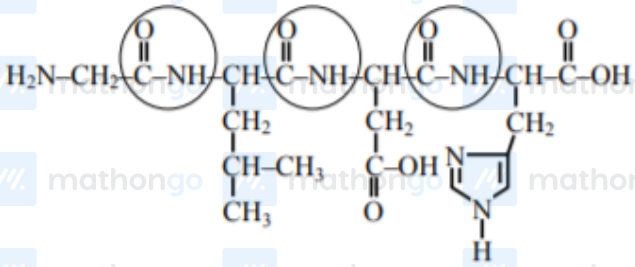
Q1 (3) **Q2** (2) **Q3** (1) **Q4** (4)

Q5 (2) **Q6** (4) **Q7** (3) **Q8** (4)

Q1 (3)



Total (3) peptide linkages are present



3 peptide linkage

Ans. (3)

Q2 (2)

Keratin, collagen and myosin are example of fibrous protein.

Q3 (1)

In Lactose it is $\beta C_1 - C_4$ glycosidic linkage.

In Maltose, Amylose α $C_1 - C_4$ glycosidic linkage is present.

Q4 (4)

Sucrose is formed by $\alpha - D(+)$. Glucose $+\beta - D(-)$ Fructose.

we obtain these monomers on hydrolysis.

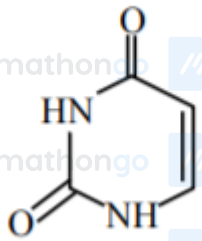
Q5 (2)

In Seliwanoff's reagent, Cu is not present.

In Barfoed, Biuret and in Benediet reagent Cu is present.

Q6 (4)

Isomeric form of uracil present in RNA



Q7 (3)

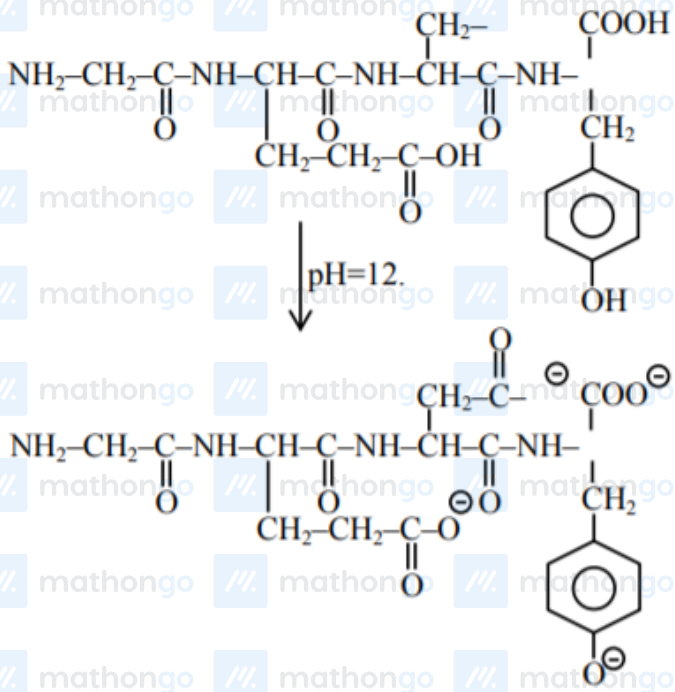
Surcrose is example of disaccharide \& non reducing sugar

Assertion : correct

Sucrose involves glycosidic linkage between C_1 of $\alpha-$ D$-$ glucose C_2 of β-D-fructose

Reason : Incorrect

Q8 (4)



Total negative charge produced = 4.