

Questions

MathonGo

Q1 - 25 July - Shift 1

During the denaturation of proteins, which of these structures will remain intact ?

- (A) Primary
- (B) Secondary
- (C) Tertiary
- (D) Quaternary

Space for your notes:

Q2 - 25 July - Shift 2

Glycosidic linkage between C_1 of α -glucose and

C_2 of β -fructose is found in

- (A) maltose
- (B) sucrose
- (C) lactose
- (D) amylose

Space for your notes:

Q3 - 26 July - Shift 1

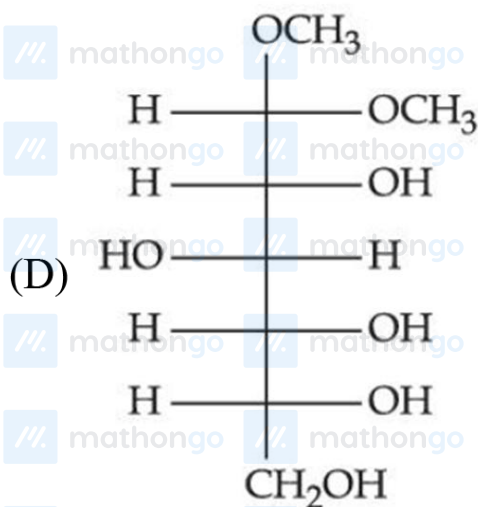
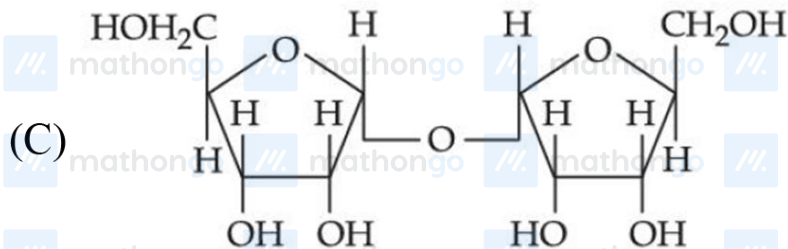
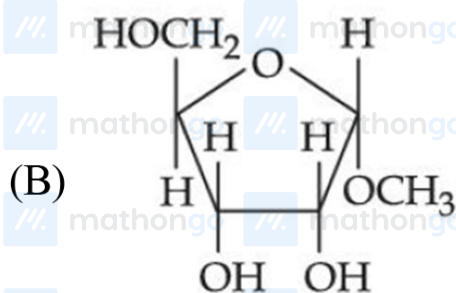
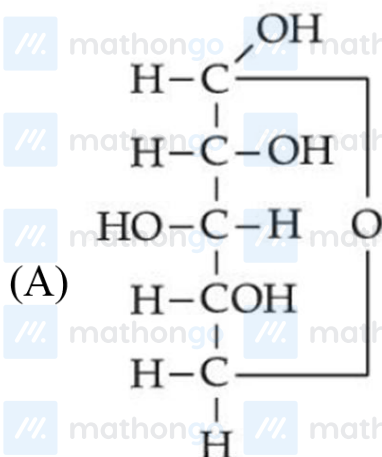
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Questions

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Which of the following is reducing sugar?

Space for your notes:



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Q4 - 26 July - Shift 2

Animal starch is the other name of :

- (A) amylose (B) maltose
(C) glycogen (D) amylopectin

Space for your notes:

Q5 - 27 July - Shift 1

A sugar 'X' dehydrates very slowly under acidic condition to give furfural which on further reaction with resorcinol gives the coloured product after sometime. Sugar 'X' is

- (A) Aldopentose (B) Aldotetrose
(C) Oxalic acid (D) Ketotetrose

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Q6 - 27 July - Shift 2

Questions

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Match List-I with List-II

*Space for your notes:***List-I**

(A) Glucose + HI

(B) Glucose + Br₂ water

(C) Glucose + acetic anhydride

(D) Glucose + HNO₃**List-II**

(I) Gluconic acid

(II) Glucose pentacetate

(III) Saccharic acid

(IV) Hexane

Choose the correct answer from the options given

below:

(A) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)

(B) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

(C) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

(D) (A)-(I), (B)-(III), (C)-(IV), (D)-(II)

Q7 - 28 July - Shift 1

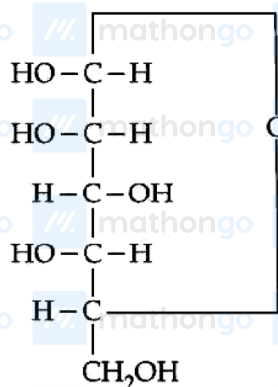
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Questions

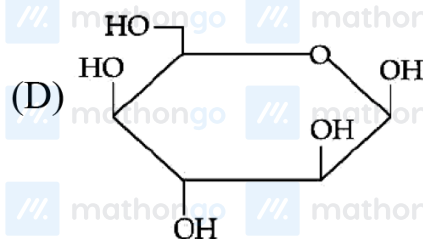
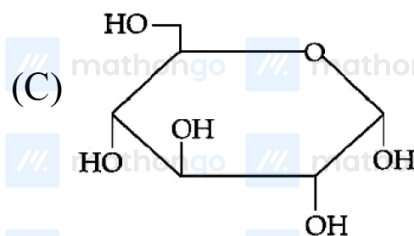
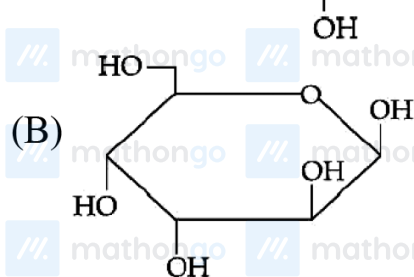
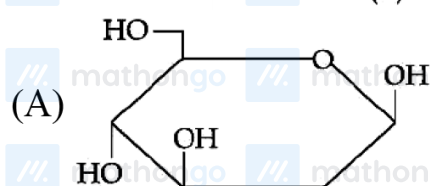
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For the below given cyclic hemiacetal (X), the correct pyranose structure is :

Space for your notes:



(X)



Q8 - 28 July - Shift 2

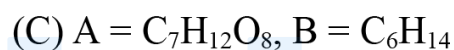
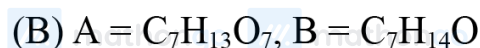
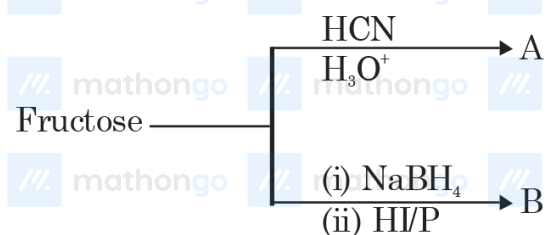
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The formulas of A and B for the following reaction sequence are

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Q9 - 29 July - Shift 1

In a linear tetrapeptide (Constituted with different amino acids), (number of amino acids) - (number of peptide bonds) is _____.

Space for your notes:

Q10 - 29 July - Shift 2

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Given below are two statements. One is labelled as

Assertion A and the other is labelled as **Reason R**.

Assertion A : Amylose is insoluble in water.

Reason R : Amylose is a long linear molecule with more than 200 glucose units.

In the light of the above statements, choose the correct answer from the options given below.

(A) Both **A** and **R** are correct and **R** is the correct explanation of **A**.

(B) Both **A** and **R** are correct and **R** is NOT the correct explanation of **A**.

(C) **A** is correct but **R** is not correct.

(D) **A** is not correct but **R** is correct.

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Answer Key

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Q1 (A) **Q2 (B)** **Q3 (A)** **Q4 (C)**
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Q5 (A) **Q6 (A)** **Q7 (D)** **Q8 (A)**
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Q9 (1) **Q10 (D)**
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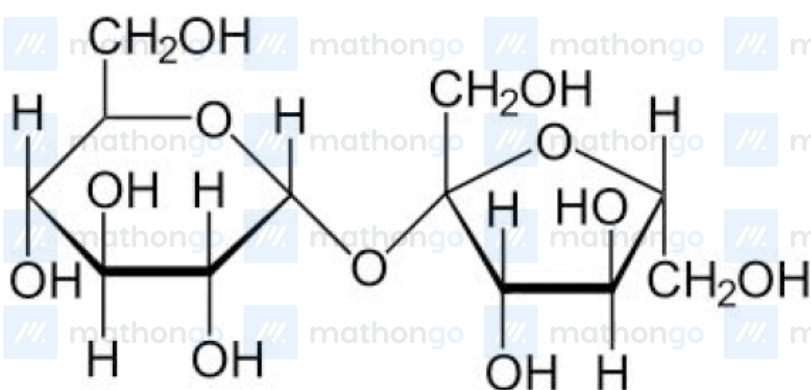
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Q1 (A)

Primary structure remains intact during denaturation of proteins

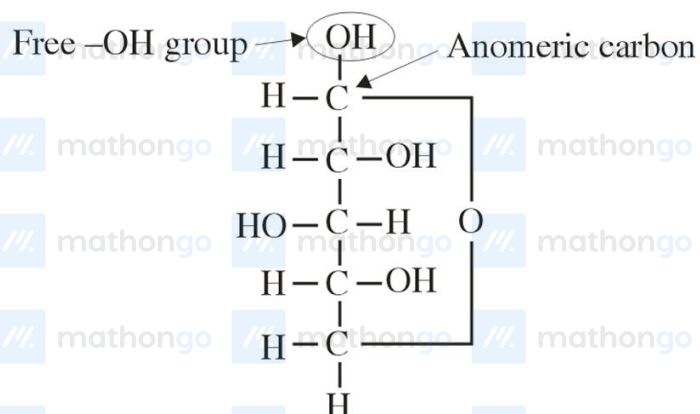
Q2 (B)

Theoretical



Q3 (A)

If any sugar is having free $-OH$ group at anomeric carbon then it will be a reducing sugar

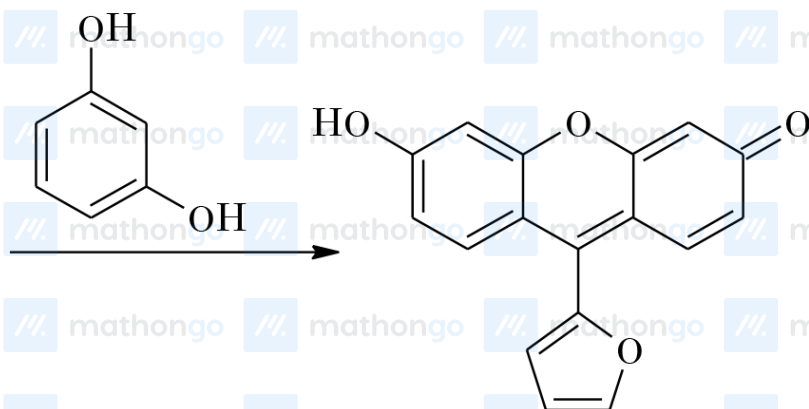
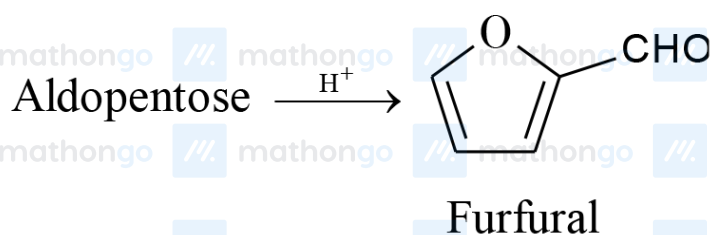


Q4 (C)

Glycogen

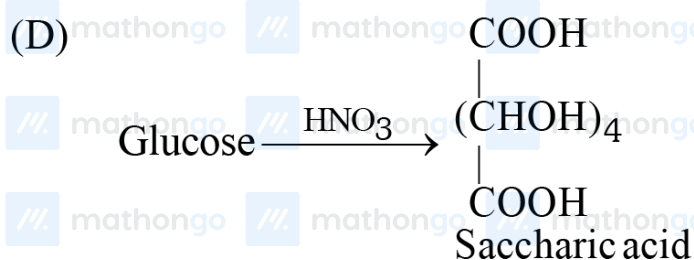
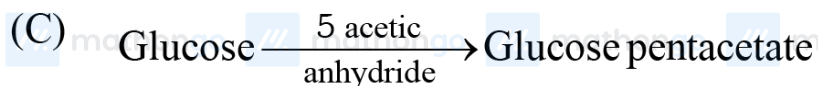
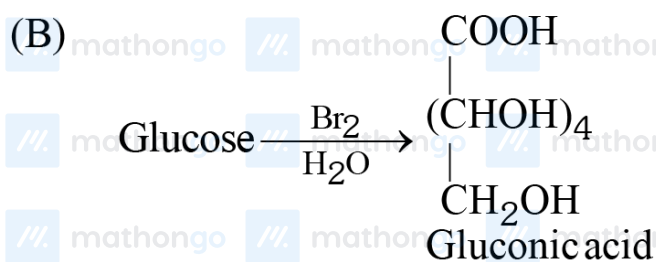
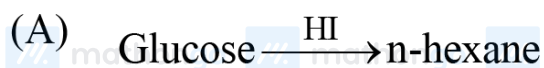
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Q5 (A)



Cherry red product
(selivanoff's test)

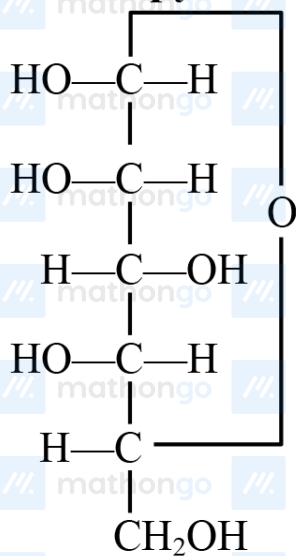
Q6 (A)



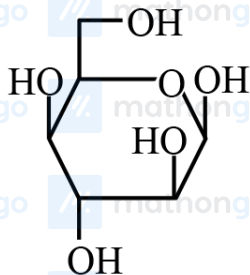
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Q7 (D)

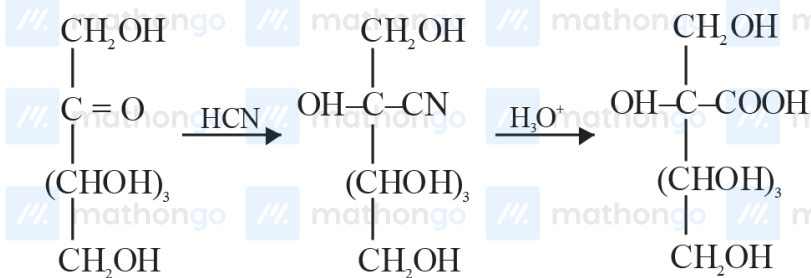
Correct pyranose structure is



X(Hemiacetal)

The corresponding
aldopyranose is

Q8 (A)

[A] [C₇H₁₄O₈]1. NaBH₄
2. P/HIn-Hexane
[B] [C₆H₁₄]

Q9 (1)

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In Tetrapeptide,

No. of Amino Acids = 4

No. of Peptide bonds = 3

Hence

Ans. = 1

Q10 (D)

Amylose is water soluble.

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