



Date: 15/07/22  
GRADE: XII

MONTHLY TEST -02 (2022-23)  
CHEMISTRY [043]

Max marks: 20  
Time: 1 Hour

General Instructions:

1. There are 9 questions in the question paper.
2. All questions are compulsory.

Qn. No	SECTION A	Marks allocated
1	The type of linkage connecting monosaccharide units in polysaccharides is (A) peptide bond (B) Ionic bond (C) Glycosidic bond (D) Phosphodiester bond	1
2	The products of hydrolysis of lactose are (A) Beta D galactose and beta D glucose (B) Glucose and fructose (C) Glucose and galactose (D) Amylose and amylopectin.	1
3	<b>Assertion</b> : Glycine must be taken through diet. <b>Reason</b> : It is an essential amino acid. (A) Both assertion and reason are true and the reason is the correct explanation of assertion. (B) Both assertion and reason are true but the reason is not the correct explanation of assertion. (C) Assertion is true but reason is false. (D) Assertion is false but reason is true. (E) Assertion and reason both are wrong.	1
4	Name the base that is found in nucleotides of RNA only (A) Adenine (B) Guanine (C) Cytosine (D) Uracil	1
	<b>SECTION B</b>	
6	Which sugar is known as invert sugar and why?	2

<b>SECTION C</b>		
6	Glucose on reaction with HI gives n-hexane. What does it suggest about the structure of glucose?	3
7	(i) How is glucose prepared commercially? (ii) What is the structural difference between glucose and fructose?	3
8	Give the Haworth projection formula of D- glucose.	3
<b>SECTION D</b>		
9	A. Write the product of hydrolysis of glucose with (i) Bromine water (ii) Nitric acid B. State two main differences between globular and fibrous proteins.	2 2 1
<b>THE END</b>		