

**TEST PAPER**

**Sub: Chemistry**  
**Max. Time: 1 Hour**  
**Biomolecule**

**Class: XII**  
**Max. Marks: 20**

1. What is meant by 'reducing sugars'? (All India 2010)
2. Write the structure of the product obtained when glucose is oxidised with nitric acid. (All India 2012)
3. Write a reaction which shows that all the carbon atoms in glucose are linked in a straight chain. (All India 2012)
4. What are the expected products of hydrolysis of lactose? (Comptt. Delhi 2012)
5. What are three types of RNA molecules which perform different functions? (Delhi 2013)
6. Write the name of linkage joining two amino acids. (All India 2013)
7. Name the deficiency diseases resulting from lack of Vitamins A and E in the diet. (Comptt. Delhi 2013)
8. Mention one important function of nucleic acids in our body. (Comptt. All India 2013)
9. Which of the two components of starch is water soluble? (Delhi 2014)
10. What are the products of hydrolysis of maltose? (All India 2014)
11. Explain what is meant by (Delhi 2009)
  - (i) a peptide linkage
  - (ii) a glycosidic linkage.
12. Answer the following questions:
  - (i) Why are vitamin B1 and vitamin C essential for us?
  - (ii) What is the difference between a nucleoside and a nucleotide? (Comptt. Delhi 2014)
13. (i) Deficiency of which vitamin causes rickets? (Delhi 2014)
  - (ii) Write the product formed on reaction of D-glucose with Br<sub>2</sub> water.

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14. Define the following terms as related to proteins :

- (i) Peptide linkage
- (ii) Primary structure
- (iii) Denaturation (All India 2014)

15. (i) Which one of the following is a polysaccharide :

Starch, Maltose, Fructose, Glucose?

- (ii) What one difference between  $\alpha$ -helix and  $\beta$ -pleated sheet structure of protein.
- (iii) Write the name of the disease caused by the deficiency of Vitamin B<sub>12</sub>. (All India 2015)

16. (i) Write the name of two monosaccharides obtained on hydrolysis of lactose sugar.

- (ii) Why Vitamin C cannot be stored in our body?
- (iii) What is the difference between a nucleoside ' and nucleotide? (Delhi 2016)

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