

Shivaji College, University of Delhi
Department of Chemistry
Internal Test (Retest)

Name of the Course : B.Sc Life Sciences
Semester : IV
Name of the paper : DSE Biomolecule-I
Faculty Name : Tamanna
Duration : 1 hour
Date of Test : 29-04-24

Maximum Marks : 16 Marks
(scaled down to 8 Marks)

Attempt all questions

- Que 1 Convert the following
(i) Fructose to Glucose
(ii) Glucose to Fructose (2 Marks)
- Que 2 What are reducing and non-reducing sugars? (1 mark)
- Que 3 Draw the Fisher and Haworth projection structure of anomers of glucose and fructose. (2 Marks)
- Que 4 Draw the structure of any two disaccharide and show the linkage between monosaccharide. What product will be formed on hydrolysis
(a) Maltose and cellulose (b) Sucrose and lactose (c) Lactose and starch (4 Marks)
- Que 5 What product will be formed when glucose is
(i) reacted with phenylhydrazine
(ii) reacted with Hydroxylamine (2 Marks)
- Que 6 What are nucleotide and nucleosides : (1 Mark)
- Que 7 Draw the structures of all the bases present in DNA (4 Marks)

Tamanna