

Shivaji College, University of Delhi
Department of Chemistry
Internal Test

Date ~~27~~²⁴th April

Name of the Course: B.Sc Life Sciences
Semester - IV

Name of the paper - DSE Biomolecules-1

Faculty Name: By Tamanna

Duration: 1 hr

Date of Test: 24 April, 2024

Maximum Marks: 16 Marks

scaled down to 8

Attempt all questions

Que 1 Write the pyranose form of anomers of
(i) Glucose
(ii) Fructose

(2 Marks)

Que 2 What is mutarotation. Discuss its Mechanism (2 Marks)

Que 3 Convert i) Fructose to Glucose
(ii) Glucose to Fructose
(iii) Glucose to its epimer (Mannose)
(iv) Glucose to Arabinose (4 Marks)

Que 4 Write Fischer projection of structure elucidation of Glucose (5 Marks)

Que 5 Draw the structure of any ~~one~~^{two} polysaccharide and show the linkage b/w monosaccharide. What product will be formed on hydrolysis.

(A) Maltose and starch

(B) Sucrose and Cellulose

(C) Lactose and Cellulose

(4 Marks)

Tamanna