

Third Semester Internal Examination, September 2026
 Minor Course in Chemistry
 Bioorganic Chemistry
 CHE3MN202

Time: 1 Hr

Max Marks: 35

Name:	Marks Scored	Section A		Total Marks
Class:		Section B		
		Section C		

Section A

(Each question carries 3 marks, Max marks for section – 7)

1. Discuss homolytic and heterolytic cleavage with examples?
2. Give an example for nucleophilic addition reaction
3. Give the pyranose ring structure of α -D-glucose and β -D-fructose.

Section B

(Each question carries 6 marks, Max marks for section – 18)

4. What is meant by mesomeric effect? Explain with an example.
5. Which is more stable, 1-butene or 2-butene and why?
6. Discuss comparatively the basicity of ammonia, methylamine and aniline.
7. Explain the terms monosaccharides, oligosaccharides and polysaccharides with suitable examples.

Section C

(Answer any one question, Each question carries 10 marks)

8. Discuss the structure, hybridisation, and stability of carbocation?
9. (i) Explain how aniline can be converted to (a) benzene; (b) bromo benzene, (c) iodobenzene and (d) phenyl cyanide
 (ii) What is meant by coupling reaction? Give one example