

**Third Semester Internal Examination, September 2024**  
**Minor Course in Chemistry**  
**Basic Organic Chemistry**  
**CHE3MN201**

Max Marks: 35

Time: 1 Hr

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. Explain the term racemic mixtures
2. Explain the reaction of Propanal with HCN
3. Define hyperconjugation

Section B

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

4. Which is more stable but -1-ene or but-2-ene? Why?
5. Compare the reactivity of nucleophilic addition reactions of aldehydes and ketones.
6. Draw the Newman projections of the conformers of butane
7. Arrange the acids acetic acid, chloroacetic acid, dichloroacetic acid and trichloroacetic acid in the increasing order of their acidities. Justify your answer

Section C

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

8. Discuss the optical isomerism exhibited by tartaric acid. Explain the characteristics of meso compound
9. Explain Mesomeric effect with suitable examples