

Second Semester Internal Examination, February 2026
Major Course in Chemistry
ORGANIC CHEMISTRY II
CHE4CJ 204

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. Explain the synthesis of Aspirin
2. Differentiate enantiomers and diastereomers with suitable examples
3. Define optical purity

Section B

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

4. Give the mechanism for the preparation of tert-butylbenzene from benzene and explain.
5. Write the stepwise mechanism for the halogenation of benzene
6. Assign R, S configuration to the all stereoisomers of tartaric acid
7. With suitable examples, explain how erythro- threo notation differ differs from the DL system in stereochemistry

Section C

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

8. Differentiate SN1 and SN2 mechanism with respect to kinetics, stereochemistry and reaction condition
9. Explain Various methods for the resolution of racemic mixtures