

Second Semester Internal Examination, February 2026
Minor Course in Chemistry
CHE2MN105- Solutions and Surface Chemistry

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. What is zeta potential?
2. What is R_f ?
3. What are the stationary and mobile phases in thin layer chromatography?

Section B

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

4. Explain (a) cleansing action of soaps and detergents (b) electrophoresis
5. (a) Discuss the stability of sols.
(b) State and explain Hardy-Schulze law.
6. Distinguish between adsorption chromatography and partition chromatography
7. Explain the principle of paper chromatography

Section C

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

8. Explain the factors which effect the solubility of gases in liquids. State and explain Henry's law with application.
9. What are Colligative properties? Explain Relative lowering of vapour pressure and Elevation in boiling point in detail.