

B.Sc. Semester - 4 (NEP-2020) Examination**March/April-2025****CHE: Chromatographic Techniques (Skill Enhancement Course)****Time: 1:00 Hours****Marks: 25****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Que-1 Answer any two questions out of three questions. (10)

1. Explain Ascending paper chromatography in detail.
2. Define (i) Chromatography (ii) Stationary phase (iii) Developer
(iv) Eluate (v) Effluent
3. Write a detailed note on methods of preparation of Chromplate in TLC.

Que-2 Answer any two questions out of three questions. (10)

1. Explain in detail GLC.
2. Explain principle & working method of Ion-exchange chromatography.
3. Give four Uses of GLC & write a note on Cation exchange resin.

Que-3 Answer any one questions out of two questions. (05)

1. Give principle of GC & explain separation of lanthanides by Ion-exchange chromatography.
2. Give four uses of Column chromatography & describe Circular paper chromatography.
