

## B.Sc. Semester - 4 (NEP-2020) Examination

March/April-2026

## 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 Circular Paper Chromatography in detail.
- (2) Discuss: Superiority of TLC over other Chromatographic Techniques and Uses of TLC.
- (3) What is Chromatography? Give it's classification in detail.

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

- (1) Explain in detail: Instrumentation of Gas Chromatography.
- (2) Explain in detail: Cation exchange resin in Ion-Exchange Chromatography.
- (3) (a) Give properties of ion exchangers in Ion-Exchange Chromatography.  
(b) Explain separation of lanthanide ions by Ion-Exchange Chromatography.

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

- (1) (a) Explain: Selection of *Solvent* and *Adsorbent* in Column chromatography.  
(b) Discuss various methods used for visualization of bands in Column chromatography.
- (2) (a) Give any six uses of GLC techniques.  
(b) Discuss the factors affecting of separation of ions in Ion Exchange chromatography.

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