

SHIVAJI COLLEGE, UNIVERSITY OF DELHI
DEPARTMENT OF CHEMISTRY
INTERNAL TEST-I (Academic Year 2023-24)

Name of the Course: B.Sc. (H) Chemistry

Semester: II

Name of the Paper: Chemistry of s- and p-Block Elements

Unique Paper Code: 21720111201

Date of Test: 19.04.2024

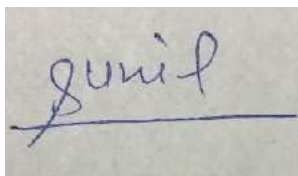
Faculty Name: Dr. Sunil Yadav

Duration: 1 Hour

Maximum Marks: 12

Attempt any four questions in all. All questions carry equal marks (3).

1. Discuss the anomalous behavior of Lithium and its compounds with respect to the other alkali metals.
2. Solutions of alkali metals in liquid ammonia show different properties as the metal concentration increases. Explain.
3. What is Vapour Phase Refining? Discuss any one method.
4. Carbon can be a good reducing agent over a wide range of temperature, explain with Ellingham diagram.
5. Discuss unique characteristics of crown ethers and cryptates as ligands.
6. What is diagonal relationship? B and Si show similar behavior, explain with examples.
7. Which type of metals can be purified by Zone refining process? Explain its principle and procedure with diagram.
8. Give the principle and procedure of Mond's Process.



A handwritten signature in blue ink, appearing to read 'Sunil', is written over a horizontal line.