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322301

December 2023

**B.Sc. (Chemistry)- III SEMESTER
Inorganic Chemistry-II (BCH-301)**

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.
2. Answer any four questions from Part-B in detail.
3. Different sub-parts of a question are to be attempted adjacent to each other.

PART-A

1. (a) What are the two basic requirements for refining of a metal by Van Arkel method? (1.5)
(b) What are pseudohalogen compounds? (1.5)
(c) What is inert pair effect? (1.5)
(d) Give the structure of 18-Crown-6. (1.5)
(e) NaOH is stronger base than Ba (OH)₂. Explain. (1.5)
(f) Why is borazine known as inorganic benzene? (1.5)
(g) Why is H₃PO₂ monobasic? (1.5)
(h) Why Li₂CO₃ is unstable while all other metal carbonates are relatively more stable? (1.5)

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[P.T.O.]