



DUDHNOI COLLEGE
SESSIONAL EXAMINATION: DECEMBER- 2021
CHEMISTRY (HONOURS)

**Semester
III**

Paper: CHE-HC-3016: Inorganic Chemistry II

Time: 1 hour
Full marks: 20

Answer all questions. The figure in the margin indicates the full mark for the question.

1. Answer any five of the following: 1x5=5
 - a. What is Lewis's acid?
 - b. What are Allotropes?
 - c. What is Catenation?
 - d. What is generalized definition of bases?
 - e. What is Bronsted and Lowry's definition of acid?
 - f. "Melting point increases with increasing Covalent character"- true or false?
 - g. "Solubility increases with increasing Ionic character"- true or false?

2. Answer any five of the following: 3x5=15
 - a. What is inert pair effect? Explain with example.
 - b. Explain the bonding of diborane.
 - c. Write a note on Leveling Solvents.
 - d. Explain the HSAB principle.
 - e. Write about the anomalous behavior of Li.
 - f. Write a note on Hydrides of Si.
 - g. Define acids and bases on the basis of Solvent System.