

Jashore University of Science and Technology
Department of Physics

Bachelor of Science with Honours in Physics

2nd semester of 3rd year (2022–2023)

Course code: PHY 3205

Course title: Solid State Physics I

Class test no.: 3

Date: 29 January 2025

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1. List the primary types of crystal bindings with examples for each type. [5]

2. Why are inert gas crystals typically bonded by van der Waals forces? [5]

3. Explain the concept of metallic bonding and its impact on the properties of metallic crystals. [5]

4. Describe the key properties of: (i) Covalent and (ii) Hydrogen bonds. [5]