

Solid State Chemistry

1. What are stoichiometric and non-stoichiometric defects? Explain with examples. What are the differences between metal excess and metal deficiency and what their effects?
2. Differentiate between Schottky and Frenkel defects with the help of diagram.
3. Distinguish between p-type and n-type semiconductor?
4. Explain why the colour of ZnO is white when hot and yellow when cold.
5. Why does NaCl when heated in presence of Na vapour turn yellow?
6. What is colour centre generator? Explain with example.
7. Write short notes on a) Role of germanium as semiconductor, b) CdCl_2 will induce Schottky defect if added to AgCl crystal.