

BRAIN INTERNATIONAL SCHOOL

Chemistry Assignment

CLASS XII

JULY'18

CH:1 SOLID STATE

- Q.1 In spite of long range order in arrangement of particles why are the crystals usually not perfect?
- Q.2 Why is FeO not formed in stoichiometric composition?
- Q.3 Why does ZnO white become yellow on heating ?
- Q.4 Why does the electrical conductivity of semiconductors increase with rise in temperature?
- Q.5 Uncharged atoms or molecules never crystallise in simple cubic structures. Why?
- Q.6 A sample of ferrous oxide has actual formula $\text{Fe}_{0.93}\text{O}_{1.00}$. In this sample what fraction of metal ions are Fe^{2+} ions? What type of nonstoichiometric defect is present in this sample?
- Q.7 A solid AB has NaCl structure. If the radius of the cation is 100 pm, what is the radius of the anion, B?
- Q.8 Ionic solids, which have anionic vacancies due to metal excess defect, develop colour. Explain with a suitable example.