Model Question Paper

Solid State - II - Part III

12th Standard

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Chemistry	Reg.No. :					
.Answer all the questions.						_
I.Use Blue pen only.						
			Т	Total N	1ark	s: 45
					5 x	1 = !
(a) CsCl (b) ZnO (c) BN (d) NaCl						
The coordination number of BN is						
(a) 3 (b) 4 (c) 6 (d) 8						
When an ion leaves its regular site occupies a position in the space between the lattice sites is called						
(a) Schottky defect (b) Frenkel defect (c) Impurity defect (d) Vacancy defect						
The 8:8 type of packing is present in						
(a) MgF_2 (b) CsCl (c) KCl (d) NaCl						
The force that generally occurs in all kinds of molecular crystals is						
(a) dipole-dipole force (b) electrostatic force (c) Vander Waals force (d) all the above						
Section-B					5 x 3	3 = 15
State the uses of semi conductors. B $I \times_2 \times^2$						
What is Schottky defect?						
What is Frenkel defect?						
Section-C					5 x 5	5 = 25
Write notes on metal excess defect and metal deficiency defect.						
Write notes on the different types of crystals.						
Write notes of superconductors.						
a) Explain the nature of glass.						
(OR)						
b) What is a unit cell? Give the characteristics of unit cell						
** <mark>****</mark> *********						
	Answer all the questions. I. Use Blue pen only. II. Question No 14 is compulsory. II. Question No 14 is compulsory. II. Question No 14 is compulsory. Section-A The crystal lattice with coordination number four is (a) CSCI (b) ZnO (c) BN (d) NaCI The coordination number of BN is (a) 3 (b) 4 (c) 6 (d) 8 When an ion leaves its regular site occupies a position in the space between the lattice sites is called (a) Schottky defect (b) Frenkel defect (c) Impurity defect (d) Vacancy defect The 8: 8 type of packing is present in (a) MgF ₂ (b) CSCI (c) KCI (d) NaCI The force that generally occurs in all kinds of molecular crystals is (a) dipole-dipole force (b) electrostatic force (c) Vander Waals force (d) all the above Section-B State the uses of semi conductors. State the significances of Bragg's equation. Write a short note on molecular crystals. What is Schottky defect? What is Frenkel defect? Section-C Write notes on the different types of crystals. 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