Model Question paper Solid state - I 1

11th Standard

	Chemistry	Reg.No.:
I. Answer all the questions.		
II. Use blue pen only.		
Time: 00:45:00 Hrs		Total Marks : 30
Part - A		5 x 1 = 5
1) The structure of sodium chloride crystal is:		
(a) body centred cubic lattice (b) face centred cubic lattice (c) octahedra	al (d) square planar	
2) The number of atoms in a face centred cubic unit cell is:		
(a) 4 (b) 3 (c) 2 (d) 1		
3) The 8:8 type of packing in present in:		
(a) CsCl (b) KCl (c) NaCl (d) MgF_2		
4) In a simple cubic cell, each point on a corner is shared by		
(a) 2 unit cells (b) 1 unit cells (c) 8 unit cells (d) 4 unit cells		
5) An amorphous solid is:		
(a) NaCl (b) CaF_2 (c) glass (d) CsCl		
Part - B		2 x 2 = 4
6) What governs the packing of particles in crystal?		
7) What is meant by 'unit cell' in crystallography?		
Part - C		2 x 3 = 6
8) What are Miller Indices?		
9) Mention the number of sodium and chloride ions in each unit cell of NaCl		
Part - D		3 x 5 = 15
10) Define and explain the following terms		
(a) Crystalline solids	7 75	
(b) Amorphous soilds		
(c) Unit cell	15 11.	
	QUESTION RANGES. IN	
11) Explain the terms Isotropy and Anisotropy.	G UN	

12) Draw a neat diagram of sodium chloride structure and describe it accordingly.