Model Question Paper

Solid State - II - Part II

12th Standard

Chemistry

Reg.No. :

I.Answer all the questions.
II.Use Blue pen only.
III.Question No 17 is compulsory

Time : 01:00:00 Hrs

Total Marks : 60

Section-A

5 x 1 = 5

1) An example for Frenkel defect is

   (a) NaCl (b) AgBr (c) CsCl (d) FeS

2) Semiconuctors which exhibit condutivity due to the flow of excess negative electrons are called

   (a) Super conductors (b) n-type semiconductors (c) p-type semiconductors (d) Insulators

3) In the Bragg's equation for diffraction of X-rays,'n' represents

   (a) The number of moles (b) Avogadro number (c) A quantum number (d) Order of reflection

4) The number of close neighbours in a body centered cubic lattice of identical spheres is

   (a) 6 (b) 4 (c) 12 (d) 8

5) The crystals which are good conductors of electricity and heat are

   (a) Ionic crystals (b) Molecular crystals (c) Metallic crystals (d) Covalent crystals

Section-B

7 x 3 = 21

6) What is a vitreous state?

7) Give two example for AB and AB_2 type ionic crystalls.

8) What is imperfection in solids?

9) What is coordination number?

10) Write a note on the assignment of atoms per unit cell in fcc.

11) Write a short note on metallic crystals. (or) What is a metallic bond?

12) How are glasses formed?

Section-C

5 x 5 = 25

13) How Bragg's equation is used for determining crystal structure.

14) Explain Bragg's spectrometer method.

15) Explain the nature of glass.

16) What is Bragg's equation? Write its significance.

17) a) Explain Bragg's spectrometer method.

(OR)

b) Explain Schottky defect and frenkel defect.

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