**Model Question Paper**

Solid State - II - Part III

12th Standard

**Chemistry**

Reg.No. : | | | | | | |

I.Answer all the questions.
II.Use Blue pen only.
III.Question No 14 is compulsory.

Time : 01:00:00 Hrs

Total Marks : 45

## Section-A

5 x 1 = 5

1) The crystal lattice with coordination number four is

   (a) CsCl (b) ZnO (c) BN (d) NaCl

2) The coordination number of BN is

   (a) 3 (b) 4 (c) 6 (d) 8

3) 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

4) The 8 : 8 type of packing is present in

   (a) $MgF_2$ (b) CsCl (c) KCl (d) NaCl

5) 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 = 15

6) State the uses of semi conductors.

7) State the significances of Bragg's equation.

8) Write a short note on molecular crystals.

9) What is Schottky defect?

10) What is Frenkel defect?

## Section-C

5 x 5 = 25

11) Write notes on metal excess defect and metal deficiency defect.

12) Write notes on the different types of crystals.

13) Write notes of superconductors.

14) a) Explain the nature of glass.

**(OR)**

b) What is a unit cell? Give the characteristics of unit cell

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