



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Subject- Physical science Worksheet- 11 Class – IX

Date -21.04.2020

Chapter- Crystal

- Q Answer the following questions (MCQ) : (1×15):

1. Allotropes differ in which of the following properties:

- a) Atomic Number
- b) Atomic Mass
- c) Crystal Structure
- d) Electronegativity

2. Co-ordination number of a crystalline solid is:

- a) Number of particles in the unit cell
- b) Number of nearest neighbours of a particle
- c) Number of octahedral voids in a unit cell
- d) Number of tetrahedral voids in a unit cell

3. Packing efficiency of a crystal structure is the ratio of:

- a) Volume occupied by particles to the total volume of the unit cell
- b) Volume occupied by particles to that by voids
- c) Total volume of the unit cell to the volume occupied by particles
- d) Volume occupied by voids to that by particles

4. HCP and BCC are called close-packed structures. Close packed structures have:

- a) Highest packing efficiency
- b) Highest void fraction
- c) Highest density
- d) All of the mentioned

5. An octahedral void is surrounded by:

- a) 8 atoms
- b) 18 atoms
- c) 6 atoms
- d) 16 atoms

6. Which of the following is a property of amorphous solids?

- a) Sharp melting point
- b) Anisotropy

- c) Long range order
- d) Definite heat of fusion

7. Which of the following is a crystalline solid?

- a) Copper wire
- b) Glass bottle
- c) Polythene bag
- d) Rubber ball

8. The smallest portion of a crystal which when repeated in different directions generates the entire crystal is called:

- a) Density
- b) Crystal lattice
- c) Unit cell
- d) None of the mentioned

9. Which of the following is not a property of metal glass?

- a) Transparent
- b) Poor thermal conductivity
- c) High magnetic susceptibility
- d) None of the mentioned

10. Grain boundaries are one of the causes of corrosion of metals?

- a) True
- b) False

11: Lattice points have another name which is called lattice

- A. sites
- B. arrangements
- C. circles
- D. array

12: In the crystal-lattice ions are arranged in

- A. two dimensions
- B. four dimensions
- C. three dimensions
- D. single dimension

13: The points which show the position of atoms in a crystal are called lattice

- A. points
- B. lines
- C. circles
- D. arrangements

14: The crystal lattice is actually

- A. array of points
- B. lines of points
- C. sum of points
- D. triangle of points

15: The crystal lattice is also known as

- A. lattice triangle
 - B. space lattice
 - C. lattice line
 - D. lattice array
- Halder

Teacher- Piyali