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Material Science Question Bank  
By- S. A. Dhavale, Div-13

1. Which of the part within an atom determines the properties of that element?

- a) Electron
- b) Proton
- c) Neutron
- d) None

Answer: a) Electron

2. Unit cell is defined as \_\_\_\_\_

- a) Simplest structural part
- b) Repeating small structural part
- c) Both
- d) None

Answer: c) Both

3. When the atoms are arranged in systematic and repeating manner is called as \_\_\_\_\_

- a) Space lattice
- b) Crystal Structure
- c) Unit Cell
- d) None

Answer: b) Crystal Structure

4. \_\_\_\_\_ materials have atoms situated in a periodic array over large atomic distances

- a) Crystalline
- b) Amorphous
- c) Both
- d) Solids

Answer: a) Crystalline

5. Glasses-Silica are the examples of the \_\_\_\_\_ material.

- a) Crystalline
- b) Amorphous
- c) Both
- d) Solids

Answer: b) Amorphous

6. The units of length in the space lattice are the distance between the space lattice points are defined by a, b and c.

- a) True
- b) False
- c) Cant say
- d) Statement is invalid

Answer: a) True

7. The angles made by perpendiculars to planes of a unit cell are called lattice angles.

- a) True
- b) False
- c) Cant say
- d) Statement is invalid

Answer: b) False

8. \_\_\_\_\_ types of crystal systems exist in nature

- a) 100
- b) 14

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- c) 7
- d) Many

Answer: c) 7

9. The monoclinic crystal structure is nothing but \_\_\_\_\_
- a) One direction pushed over orthorhombic
  - b) Two direction pushed over orthorhombic
  - c) Three direction pushed over orthorhombic
  - d) Invalid statement pushed over orthorhombic

Answer: a) One direction pushed over orthorhombic

10. Average number of atoms in case of face centered cubic structure is \_\_\_\_\_
- a) 1
  - b) 3
  - c) 4
  - d) 0

Answer: c) 4