

Solid State Physics MCQs

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1. Iron has a Body-Centered Cubic (BCC) structure with atomic radius 0.123 \AA . Find the lattice constant.

- A) 0
- B) 4.587 \AA
- C) 2.314 \AA
- D) 0.2840 \AA

Answer - Click Here:

D

2. The interplanar spacing of (220) planes of a Face-centered cubic (FCC) structure is 1.7458 \AA . Calculate the lattice constant.

- A) 4.983 \AA
- B) 2.458 \AA
- C) 0
- D) 5.125 \AA

Answer - Click Here:

A

3. What is the lattice constant for FCC crystal having atomic radius 1.476 \AA

- A) 1.476 \AA
- B) 4.1748 \AA
- C) 5.216 \AA
- D) 0

Answer - Click Here:

A

4. What is the possible number of different types of lattices (3D)?

- A) 4
- B) 8
- C) 14
- D) 17

Answer - Click Here:

C

5. Why are the glasses of building milky?

- A) it changes in properties
- B) it becomes old
- C) it is brittle
- D) of unwanted deposits

Answer - Click Here:

A

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6. Which of the following is a crystalline solid?

- A) Isotropic substances
- B) Anisotropic substances
- C) Supercooled liquids
- D) Amorphous solids

Answer - Click Here:

B

7. Which of the following covalent compounds conduct electricity?

- A) Silica
- B) Hydrogen chloride
- C) Diamond
- D) Graphite

Answer - Click Here:

D

8. When do ionic compounds conduct electricity?

- A) When dissolved in water
- B) In solid state
- C) In gaseous state
- D) They never conduct

Answer - Click Here:

A

9. Which one of the following is the property of an ionic compound?

- A) High melting and boiling points
- B) Low melting and boiling points
- C) Weak inter-atomic forces
- D) Non conductors of electricity

Answer - Click Here:

A

10. What will happen to the elastic property of Gold when Potassium is added to gold?

- A) The elastic property of gold decreases
- B) The elastic property of gold remains unaltered
- C) The elastic property of gold increases
- D) Gold loses its elastic property

Answer - Click Here:

C

11. What is the effect of annealing(to remove hardness) on elasticity of materials?

- A) Increases the elasticity
- B) Decreases the elasticity
- C) Has no effect on elasticity
- D) Distorts the material

Answer - Click Here:

B

12. When too many people stand on a bridge it collapses, why?

- A) Due to increase in stress

- B) Due to overweight
- C) Due to improper construction
- D) Due to friction

Answer - Click Here:

A



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