

PHY307

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1. Bravais lattice consists of _____ space lattices.

Eleven

Twelve

Thirteen

--->> Fourteen

2. Which of the following theories cannot be explained by classical theory?

Electron theory

Lorentz theory

--->> Photo-electric effect

Classical free electron theory

3. What does the conductivity of metals depend upon?

The nature of the material

--->> Number of free electrons

Resistance of the metal

Number of electrons

4. What is the atomic packing factor of BCC structure?

0.54

--->> 0.68

0.74

0.96

5. The crystal lattice has a _____ arrangement.

One-dimensional

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--->> Three-dimensional

Four-dimensional

6. Which of the following theories can be adopted to rectify the drawbacks of classical theory?

Compton theory

--->> Quantum theory

Band theory

Electron theory

7. The smallest portion of the lattice is known as _____

Lattice structure

Lattice point

Bravais crystal

--->> Unit cell

8. What is the coordination number of a simple cubic structure?

--->> 6

8

10

12

9. A unit cell that contains lattice points only at the corners is known as _____

--->> Primitive unit cell

Secondary unit cell

Layered unit cell

Derived unit cell

10. What happens to the free electrons when an electric field is applied?

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They move in the direction of the field

They remain stable

--->> They move in the direction opposite to that of the field

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