

Electrical & Electronics Engineering Material Science Objective Questions Pdf

1. A permeable substance is one
 - a. Which is strong magnetic
 - b. Which is weak magnetic
 - c. Which is a good conductor
 - d. Through which magnetic lines of force can pass can pass easilyAns: D
2. The capacitance per unit volume is maximum for
 - a. Air capacitor
 - b. Mica capacitor
 - c. Ceramic capacitor
 - d. Electrolytic capacitorAns: D
3. For a given dielectric, with increase in temperature the ionic polarizability
 - a. Increases
 - b. Decreases
 - c. Remains same
 - d. FluctuatesAns: C
4. Piezoelectric quartz crystal resonators find application where
 - a. Signal amplification is required
 - b. Rectification of the signal is required
 - c. Signal frequency control is required
 - d. Modulation of signal is requiredAns: C
5. Superconducting metal in superconducting state has relative permeability of
 - a. More than one
 - b. One
 - c. Zero
 - d. NegativeAns: C
6. The tiny block formed by the arrangement of a small group of atoms is called the
 - a. space lattice
 - b. unit cell
 - c. cubic cell
 - d. primitive cellAns: B
7. Most of the common metals have ____ structures.
 - a. Cubic

- b. Linear
- c. Hexagonal
- d. None of these

Ans: C

8. Pure metals generally have

- a. high conductivity and low temperature coefficient
- b. high conductivity and large temperature coefficient
- c. low conductivity and zero temperature coefficient
- d. low conductivity and high temperature coefficient

Ans: B

9. Which one of the following statements is correct?

Ionic crystals are

- a. Hard and brittle
- b. Soft and elastic
- c. Hard and corrosive
- d. Soft and inflammable

Ans: A

10. The 'residual resistivity' of a metal is

- a. due to lattice vibrations at high temperature
- b. due to photon scattering at high temperature
- c. temperature dependent
- d. temperature independent

Ans: D

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