

Electrical and Electronics Engineering Material Science Questions & Answers Pdf

1. The maximum power handling capacity of a resistance depends on
- Total surface area
 - Resistance value
 - Thermal capacity of the resistor
 - Resistivity of the material used in the resistor

Ans: C

2. The fuse material used in electrical lines must have which one of the following properties?
- High resistivity
 - Low conductivity
 - High melting point
 - Low melting point

Ans: D

3. Which one of the following materials has temperature coefficient of resistance very close to zero.
- Manganin
 - Nichrome
 - Carbon
 - Aluminium

Ans: A

4. A superconductor may be used for generating
- Voltage
 - Pressure
 - Temperature
 - Magnetic field

As : D

5. The piezoelectric effect is the polarization of a dielectric under the influence of
- Light
 - Mechanical stress
 - Electrical stress
 - Heat

Ans: B

6. Piezoelectricity is the reverse effect of
- Electroluminescence
 - Electrostriction
 - Peltier effect
 - Halt effect

Ans: B

7. Which of the following insulating materials has the least affinity for moisture?

- a. Cotton
- b. Paper
- c. Asbestos
- d. Mica

Ans: C

8. What happens when a paramagnetic material is heated above Curie temperature?

- a. It becomes diamagnetic
- b. It becomes non-magnetic
- c. It becomes ferromagnetic
- d. It becomes anti-ferromagnetic

Ans: B

9. In which one of the following magnetic materials, is the net magnetic moment zero?

- a. Paramagnetic
- b. Ferromagnetic
- c. Ferrimagnetic
- d. Anti-ferrimagnetic

Ans: D

10. Which one of the following is not a permanent magnetic material?

- a. Chromium steel
- b. Silicon iron
- c. Cobalt steel
- d. Alnico

Ans: B