

Electrical Materials Objective Questions and Answers Pdf

Question: 1

The unit of ionization potential is the same as that of

- (A) radiation's frequency
- (B) electron affinity
- (C) electron energy
- (D) electronic charge

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Ans: B

electron affinity

Question: 2

Which material among the following possesses excellent dielectric properties and good reliability for use in making capacitors?

- (A) chromium oxide
- (B) tin oxide
- (C) silicon dioxide
- (D) silicon monoxide

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Ans: A

chromium oxide

Question: 3

## Magnetic susceptibility is

- (A) proportional to temperature but independent of magnetizing field
- (B) proportional to temperature but inversely proportional to magnetizing field
- (C) inversely proportional to both temperature and magnetic field
- (D) inversely proportional to temperature but independent of magnetizing field

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Ans: D

inversely proportional to temperature but independent of magnetizing field

Question: 4

## Dielectric loss due to ionization is peculiar to

- (A) gaseous dielectrics
- (B) non ferrous dielectrics
- (C) non metallic dielectrics
- (D) non uniform dielectrics

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Ans: A

gaseous dielectrics

Question: 5

## The electrical conductivity of copper reduces with the addition of a small amount of nickel because

- (A) the electrons of copper become bound to nickel and are not free to move
- (B) less free electrons are available for conduction

(C) nickel is ferromagnetic

(D) the mobility decreases due to creation of new scattering for electrons

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Ans: D

the mobility decreases due to creation of new scattering for electrons

**Question: 6**

Lattice thermal conductivity is more than electronic thermal conductivity in

(A) semiconductors

(B) dielectric

(C) metals

(D) all of these

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Ans: B

dielectric

**Question: 7**

At Neel temperature

(A) permeability is maximum

(B) permeability is minimum

(C) susceptibility is maximum

(D) susceptibility is minimum

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Ans: C

susceptibility is maximum

**Question: 8**

In electrical machines the material preferred for pole shoes of electromagnets is

- (A) aluminium
- (B) lead
- (C) copper
- (D) pure iron

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Ans: D

pure iron

**Question: 9**

The resistivity component arising due to impurities and defects is commonly known as

- (A) joule's component of resistivity
- (B) thermal component of resistivity
- (C) residual component of resistivity
- (D) none of the above

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Ans: C

residual component of resistivity

Question: 10

Which of the following dielectric materials possess maximum dielectric strength?

(A) carbon dioxide

(B) mica

(C) glass

(D) bakelite

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Ans: B

mica

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