

8. In some substances when an electric field is applied the substance becomes polarized. The electrons and nuclei assume new geometrical positions and the mechanical dimensions are altered. This phenomenon is called
- (a) Electrostriction (b) Hall-Effect
(c) Polarization (d) Magnetization

Ans. (a)

Electrostriction: Change in the dimension or production of strain in material with application of electric field is known as electrostriction.

===== End of Solution

9. In ferromagnetic materials, the net magnetic moment created due to magnetization by an applied field is :
- (a) Normal to the applied field (b) Adds to the applied field
(c) In line with magneto motive force (d) Subtracts from the applied field

Ans. (b)

In ferromagnetic material, the total magnetic flux density is summation of

- flux density due to applied field
- flux density due to magnetization

$$\text{i.e. } B = \mu_0 H + \mu_0 M$$

===== End of Solution

10. At what temperatures domains lose their ferromagnetic properties?
- (a) Above ferromagnetic Curie temperature (b) Below paramagnetic Curie temperature
(c) Above 4° K (d) At room temperature

Ans. (a)

Above ferromagnetic curie temperature, ferromagnetism disappear and material enters into its paramagnetic state.

===== End of Solution

11. Which of the following materials does not have paramagnetic properties ?
1. Rare earth elements (with incomplete shell)
 2. Transition elements
 3. Magnesium oxide

Select the correct answer from the codes given below:

- (a) 1 only (b) 2 only
(c) 3 only (d) 1 and 2

Ans. (c)

Magnesium oxide is a non-magnetic material where as rare earth elements and transition elements are magnetic material.

===== End of Solution

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**Limin Jia,Yong Li,Xianfeng Xu,Yiming
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