

9. Give any four property changes that can be observed when a bulk material is synthesized as nanomaterial.

10. What are metallic glasses?

PART B — ( $5 \times 16 = 80$  marks)

11. (a) What are the basic assumptions of classical free electron theory? Based on the assumptions derive an expression for electrical and thermal conductivity of metals. What are the success and failures of the theory? (2 + 10 + 4)

Or

(b) Explain the concept of density of energy states. Derive an expression for density of energy states, using the expression find an expression for Fermi energy level for metals at 0 K. (2 + 10 + 4)

12. (a) Describe the formation of n-type semiconductor with energy band diagram. Derive an expression for density of charge carriers and explain how the charge carrier density varies with temperature. (2 + 10 + 4)

Or

(b) (i) Explain Hall effect in semiconductors. Derive an expression for Hall co-efficient. Explain how Hall probe is used to detect weak magnetic fields. (2 + 6 + 4)

(ii) A rectangular slab of silicon of thickness 1 mm is placed in the region of the magnetic field perpendicular to the field and the current in the slab is 20 mA, the Hall voltage is  $150 \mu\text{V}$ . The free electron concentration of that particular silicon is  $6 \times 10^{24}$  electrons/ $\text{m}^3$ . What is the strength of the magnetic field? (4)

13. (a) (i) Explain domain theory of ferromagnetism. (8)  
(ii) What is hysteresis? Explain how magnetic materials are classified based on the hysteresis property. (8)

Or

(b) (i) Explain high temperature superconductors with examples. (8)  
(ii) Explain the working principle of SQUID and Cryotron. (8)

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