

Con. 5957-11.

MP-2446

(2 Hours)

[ Total Marks : 75

- N.B. :** (1) Question No. 1 is compulsory.  
 (2) Attempt any four questions from the remaining questions.  
 (3) Assume suitable data and symbols if required.  
 (4) Figures to the right indicate the full marks.

**Q.1** Answer any five questions:

- a) Draw the following planes (121), (100), (111) (3)
- b) State any three applications of superconductivity (3)
- c) How Lissajous figures are used to determine phase difference? (3)
- d) What are ultrasonic waves? State magnetostriction effect. (3)
- e) State Sabine's formula. (3)
- f) Calculate atomic packing factor for FCC crystal structure? (3)
- g) Show the position of Fermi level in intrinsic semiconductor, p-type semiconductor and n-type semiconductor. (3)

- Q.2**
- a) Explain Diamond crystal structure with proper diagram. Calculate the number of atoms per unit cell, atomic radius and atomic packing factor for diamond unit cell. (8)
  - b) What is cavitation effect? Find the natural frequency of vibration of quartz plate of thickness 2 mm. Given: Young's modulus for quartz is  $8 \times 10^{10} \text{ N/m}^2$  and density  $2650 \text{ Kg/m}^3$ . Calculate the change in thickness required if the same plate is to be used to produce ultrasonic waves of 3 MHz. (7)

- Q.3**
- a) Explain reverberation and reverberation time. Explain various methods for design of good acoustics. (8)
  - b) What are lattice parameters? Aluminium has density  $2.7 \text{ gm/cm}^3$ . It has atomic weight 27 and lattice parameter is  $4.05 \text{ \AA}$ . Determine the type of crystal structure followed by Aluminium and calculate the atomic radius. Given Avogadro's number  $N_A = 6.023 \times 10^{23} / \text{gm mole}$ . (7)

- Q.4**
- a) What is superconductivity and critical temperature? Describe type I and type II superconductor. (8)
  - b) Define mobility of charge carrier. Find resistivity of germanium at  $300^\circ\text{K}$ . Given density of carriers is  $2.5 \times 10^{19} / \text{m}^3$ . Mobility of electron is  $0.39 \text{ m}^2/\text{V-Sec}$  and mobility of hole is  $0.19 \text{ m}^2/\text{V-Sec}$ . Charge of electron is  $1.6 \times 10^{19} \text{ C}$ . (7)

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