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SECTION - B (35 Marks)Answer **ALL** questions**ALL** questions carry **EQUAL** Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Elucidate the types of crystal structure.	K1	CO1
		(OR)		
	11.b.	Outline the crystal imperfection.		
2	12.a.	Analyze the Hall effect.	K2	CO2
		(OR)		
	12.b.	Derive the Clausius Mosotti relation.		
3	13.a.	Interpret the Einstein's model for density of states.	K2	CO2
		(OR)		
	13.b.	Analyze the thermal resistance of phonon gas.		
4	14.a.	Explain the Langevin's classical theory of diamagnetism.	K1	CO1
		(OR)		
	14.b.	Describe the Weiss molecular theory for ferromagnetic materials.		
5	15.a.	Enumerate the Meissner effect.	K1	CO1
		(OR)		
	15.b.	Explain the DC Josephson effect.		

SECTION -C (30 Marks)Answer **ANY THREE** questions**ALL** questions carry **EQUAL** Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Explain the structure factor of FCC and BCC.	K1	CO1
2	17	Discuss the Kroenig Penny model.	K1	CO1
3	18	Interpret the Debye's model for density of states.	K2	CO2
4	19	Explain the Langevin's quantum theory of diamagnetism.	K1	CO1
5	20	Analyze the BCS theory.	K2	CO2

Z-Z-Z

END