



	OR		
7	Write short notes on (a) superionic conductors and (b) solid fuel cells. [5+5]	3	I
8	Describe the domain theory of ferromagnetism and explain the hysteresis loop based on that. [10]	4	II
	OR		
9	a) Differentiate types of superconducting materials by their properties. [5] b) Write the applications of superconductors. [5]	4	II
10	Explain the construction and working of ruby laser. Mention its applications. [10]	5	II
	OR		
11	Discuss the losses in optical fiber. Write a brief note on the applications of optical fibers. [10]	5	III