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	Reg. No. :
	Question Paper Code: 30319
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.
	Second Semester
	Computer Science and Engineering
	PH 3256 – PHYSICS FOR INFORMATION SCIENCE
	(Common to : Computer and Communication Engineering/Artificial Intelligence and Data Science/Computer Science and Business Systems/Information Technology)
	(Regulations 2021)
	Time: Three hours Maximum: 100 marks
	Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
	1. Define effective mass of an electron.
	2. Define Fermi level.
	3. What is a Schottky diode?
	4. Define diffusion current.
	5. Compare hard and soft magnetic materials.
	6. Define saturation magnetization.
	7. What is a photovoltaic device?
	8. Mention any two applications of laser diode.
	9. Define qubit.
	10. What are quantum gates?
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