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	Question Paper Code: 60049
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.
	Second Semester Electrical and Electronics Engineering
	PH3202 — PHYSICS FOR ELECTRICAL ENGINEERING
	(Regulations 2021) Time : Three hours Maximum : 100 marks
	Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
	Define dielectric breakdown phenomenon. What are piezo and pyroelectric crystals?
	3. Write the Fermi distribution function for electrons in a solid.
	What are GMR devices? Do Plot the Energy band diagram of direct and indirect band gap semiconductors.
	6. Define Hall effect.
	7. Mention the classification of optical materials8. How does an excitonic state form?
	9. Define quantum confinement.
	10. How does a quantum well laser work?

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