



First/Second Semester B.E./B.Tech. Degree Examination, June/July 2023
Physics for CSE Stream

Max. Marks: 100

- Note:**
1. Answer any FIVE full questions, choosing ONE full question from each module.
 2. VTU Formula Hand Book is permitted.
 3. M : Marks , L: Bloom's level , C: Course outcomes.
 4. Constants : Speed of Light $C = 3 \times 10^8 \text{ m/s}$, Boltzmann const. $K = 1.38 \times 10^{-23} \text{ J/K}$, Planck's const $h = 6.625 \times 10^{-34} \text{ JS}$, Acceleration due to gravity $g = 9.8 \text{ m/s}^2$, mass of electron $m = 9.1 \times 10^{-31} \text{ Kg}$

Module - 1			M	L	C
Q.1	a.	Derive an expression for energy density in terms of Einstein's coefficients in Laser action.	10	L2	CO1
	b.	Explain types of optical fibers.	6	L2	CO1
	c.	The ratio of population inversion of two energy levels is 1.059×10^{-30} . Find the wavelength of Light emitted by spontaneous emissions at 330K.	4	L3	CO1
OR					
Q.2	a.	Derive an expression for Numerical aperture in an optical fiber.	8	L2	CO1
	b.	Discuss construction and working of semiconductor diode Laser with energy level diagram.	8	L2	CO1
	c.	The angle of acceptance of an optical fiber is 30° , when kept in air. Find the angle of acceptance when it is in a medium of refractive index 1.33.	4	L3	CO1
Module - 2					
Q.3	a.	What is wave packet? Give physical significance and properties of wave function? Define group velocity.	8	L2	CO1
	b.	State and explain Heisenberg's uncertainty principle. Give its physical significance. Show that electron cannot exist inside the nucleus.	8	L2	CO2
	c.	A particle of mass $0.5 \text{ MeV}/c^2$ has kinetic energy 100eV. Find its de Broglie wavelength, where 'C' is the velocity of light.	4	L3	CO2
OR					
Q.4	a.	Derive an expression for Schrödinger's Time independent equation one dimensional form.	8	L2	CO2
	b.	Obtain the expression for energy eigen values using Schrodinger's time independent equation.	8	L2	CO2
	c.	In a measurement of position and velocity of an electron moving with a speed of $6 \times 10^7 \text{ m/s}$, calculate highest accuracy with which its position could be determined, if the inherent error in the measurement of its velocity is 0.01% for the speed stated.	4	L3	CO2

F335 Question Paper June 2013

L Cohen



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Table of Contents F335 Question Paper June 2013

1. Understanding the eBook F335 Question Paper June 2013
 - The Rise of Digital Reading F335 Question Paper June 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying F335 Question Paper June 2013
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an F335 Question Paper June 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from F335 Question Paper June 2013
 - Personalized Recommendations
 - F335 Question Paper June 2013 User Reviews and Ratings
 - F335 Question Paper June 2013 and Bestseller Lists
5. Accessing F335 Question Paper June 2013 Free and Paid eBooks

- F335 Question Paper June 2013 Public Domain eBooks
 - F335 Question Paper June 2013 eBook Subscription Services
 - F335 Question Paper June 2013 Budget-Friendly Options
6. Navigating F335 Question Paper June 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - F335 Question Paper June 2013 Compatibility with Devices
 - F335 Question Paper June 2013 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of F335 Question Paper June 2013
 - Highlighting and Note-Taking F335 Question Paper June 2013
 - Interactive Elements F335 Question Paper June 2013
 8. Staying Engaged with F335 Question Paper June 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers F335 Question Paper June 2013
 9. Balancing eBooks and Physical Books F335 Question Paper June 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection F335 Question Paper June 2013
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine F335 Question Paper June 2013
 - Setting Reading Goals F335 Question Paper June 2013
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of F335 Question Paper June 2013
 - Fact-Checking eBook Content of F335 Question Paper June 2013
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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