USN

15PHY 12/22

(05 Marks)

(07 Marries)

6008 Pellaurikasi

(004 Minuries)

First/Second Semester B.E. Degree(CBCS)Examination

Engineering Physics

Time: 3 hrs.

Max. Marks: 80

- Note: 1. Answer any FIVE full questions, choosing one full question from each module. 2. Physical Constants: Velocity of light, c = 3x108m/s, Planck's constant,
 - $h = 6.625 \times 10^{-34}$ JS; Mass of electron m= 9.1×10^{-31} kg; Boltzmann constant, $k = 1.38 \times 10^{-23}$ J/K; Avagadro number, $N_A = 6.02 \times 10^{26}$ /K mole

Module-1

- State Planck's law of black body radiation. Show that Planck's law reduces to Wien's law and Rayleigh Jeans law at lower and higher wavelength limits respectively. (007 Minuries)
 - Based on Heisenberg's uncertainty principle, show that electrons cannot exist within the b. nucleus.
 - Calculate the de Broglie wavelength of an electron moving with a K.E. of 50 Kev. (04 Marks)

- What is phase velocity and group velocity? Show that group velocity is equal to particle 2 436. velocity. (005 Marks)
 - Obtain the solution of Schrodinger's time independent wave equation for a particle in a one dimensional potential box of infinite height.
 - X-rays of wavelength 0.75 Å are scattered from a target at an angle of 45°. Calculate the wavelength of scattered X-rays. (04 Marks)

Module-2

- What is Fermi level? Describe the variation of Fermi factor with temperature. 3 (05 Marks) 28.
 - What is Meissner effect? Write a note on Type I and Type II super conductors (07 Marks) b.
 - For intrinsic gallium arsenide, the room temperature electrical conductivity is 10-6 ohm 1m-1. The electron and hole mobilities are respectively 0.85 m²/Vs and 0.04 m²/Vs. Calculate the intrinsic carrier concentration at room Temperature. (04 Marks)

- Explain the BCS theory of super conductivity. 31.
 - State law of mass action. Obtain an expression for the intrinsic carrier density. b.
 - Calculate the probability of finding an electron at an energy level 0.02 eV above Fermi level at 300K. (04 Marks).

Module-3

- 5 Explain the construction and working of carbon dioxide Laser.
 - Obtain an expression for the numerical aperture of an optical fiber. lo.
 - C. The average power output of a laser beam of wavelength 6500 Å is 10 mw. Find the number of photons emitted per second by the laser source. (04 Marks)

- What is holography? Explain the principle and method of recording an image on a **33.** hologram. (006 Minuckey) (06 Minutes)
 - Explain the different types of optical fibers. b.
 - An Optical signal propagating in a fiber retains 85% of input power after travelling a distance of 500 m in the fiber. Calculate the attenuation coefficient. (0.4 Miauries)

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Table of Contents Question Paper Of Engineering Sciences

- 1. Understanding the eBook Question Paper Of Engineering Sciences
 - The Rise of Digital Reading Question Paper Of Engineering Sciences
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Question Paper Of Engineering Sciences
 - Exploring Different Genres
 - $\circ\,$ Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Question Paper Of Engineering Sciences
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Question Paper Of Engineering Sciences
 - Personalized Recommendations
 - Question Paper Of Engineering Sciences User Reviews and Ratings
 - Question Paper Of Engineering Sciences and Bestseller Lists
- 5. Accessing Question Paper Of Engineering Sciences Free and Paid eBooks
 - Question Paper Of Engineering Sciences Public Domain eBooks
 - Question Paper Of Engineering Sciences eBook Subscription Services
 - Question Paper Of Engineering Sciences Budget-Friendly Options
- 6. Navigating Question Paper Of Engineering Sciences eBook Formats
 - o ePub, PDF, MOBI, and More
 - Question Paper Of Engineering Sciences Compatibility with Devices
 - Question Paper Of Engineering Sciences Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Question Paper Of Engineering Sciences
 - Highlighting and Note-Taking Question Paper Of Engineering Sciences
 - Interactive Elements Question Paper Of Engineering Sciences
- 8. Staying Engaged with Question Paper Of Engineering Sciences

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Question Paper Of Engineering Sciences
- 9. Balancing eBooks and Physical Books Question Paper Of Engineering Sciences
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Question Paper Of Engineering Sciences
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Question Paper Of Engineering Sciences
 - Setting Reading Goals Question Paper Of Engineering Sciences
 - ∘ Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Question Paper Of Engineering Sciences
 - Fact-Checking eBook Content of Question Paper Of Engineering Sciences
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - o Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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