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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, $c = 3 \times 10^8$ m/s, Planck's constant, $h = 6.625 \times 10^{-34}$ JS; Mass of electron $m = 9.1 \times 10^{-31}$ kg; Boltzmann constant, $k = 1.38 \times 10^{-23}$ J/K; Avagadro number, $N_A = 6.02 \times 10^{26}$ /K mole

Module-1

- 1 a. 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. (07 Marks)
- b. Based on Heisenberg's uncertainty principle, show that electrons cannot exist within the nucleus. (05 Marks)
- c. Calculate the de Broglie wavelength of an electron moving with a K.E. of 50 Kev. (04 Marks)

OR

- 2 a. What is phase velocity and group velocity? Show that group velocity is equal to particle velocity. (05 Marks)
- b. Obtain the solution of Schrodinger's time independent wave equation for a particle in a one dimensional potential box of infinite height. (07 Marks)
- c. X-rays of wavelength 0.75 \AA are scattered from a target at an angle of 45° . Calculate the wavelength of scattered X-rays. (04 Marks)

Module-2

- 3 a. What is Fermi level? Describe the variation of Fermi factor with temperature. (05 Marks)
- b. What is Meissner effect? Write a note on Type – I and Type – II super conductors. (07 Marks)
- c. For intrinsic gallium arsenide, the room temperature electrical conductivity is $10^{-6} \text{ ohm}^{-1} \text{ m}^{-1}$. The electron and hole mobilities are respectively $0.85 \text{ m}^2/\text{Vs}$ and $0.04 \text{ m}^2/\text{Vs}$. Calculate the intrinsic carrier concentration at room Temperature. (04 Marks)

OR

- 4 a. Explain the BCS theory of super conductivity. (05 Marks)
- b. State law of mass action. Obtain an expression for the intrinsic carrier density. (07 Marks)
- c. Calculate the probability of finding an electron at an energy level 0.02 eV above Fermi level at 300K . (04 Marks)

Module-3

- 5 a. Explain the construction and working of carbon dioxide Laser. (08 Marks)
- b. Obtain an expression for the numerical aperture of an optical fiber. (04 Marks)
- c. The average power output of a laser beam of wavelength 6500 \AA is 10 mw . Find the number of photons emitted per second by the laser source. (04 Marks)

OR

- 6 a. What is holography? Explain the principle and method of recording an image on a hologram. (06 Marks)
- b. Explain the different types of optical fibers. (06 Marks)
- c. 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. (04 Marks)

Engineering Physics First Year Question Paper

Mark Steyvers



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1. Understanding the eBook Engineering Physics First Year Question Paper
 - The Rise of Digital Reading Engineering Physics First Year Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Physics First Year Question Paper
 - 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 Engineering Physics First Year Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Physics First Year Question Paper
 - Personalized Recommendations
 - Engineering Physics First Year Question Paper User Reviews and Ratings
 - Engineering Physics First Year Question Paper and Bestseller Lists
5. Accessing Engineering Physics First Year Question Paper Free and Paid eBooks
 - Engineering Physics First Year Question Paper Public Domain eBooks
 - Engineering Physics First Year Question Paper eBook Subscription Services
 - Engineering Physics First Year Question Paper Budget-Friendly Options
6. Navigating Engineering Physics First Year Question Paper eBook Formats

- ePub, PDF, MOBI, and More
 - Engineering Physics First Year Question Paper Compatibility with Devices
 - Engineering Physics First Year Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Physics First Year Question Paper
 - Highlighting and Note-Taking Engineering Physics First Year Question Paper
 - Interactive Elements Engineering Physics First Year Question Paper
 8. Staying Engaged with Engineering Physics First Year Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Physics First Year Question Paper
 9. Balancing eBooks and Physical Books Engineering Physics First Year Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Physics First Year Question Paper
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Engineering Physics First Year Question Paper
 - Setting Reading Goals Engineering Physics First Year Question Paper
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Engineering Physics First Year Question Paper
 - Fact-Checking eBook Content of Engineering Physics First Year Question Paper
 - 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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