

First Semester B.E. Degree Examination, Dec.2015/Jan.2016
Engineering Physics

Time: 3 hrs.

Max. Marks: 50

Note: 1. Answer any FIVE full questions, choosing one full question from each module.

- 2. Physical Constants:** Velocity of light, $c = 3 \times 10^8 \text{ ms}^{-1}$
 Planck's constant, $h = 6.625 \times 10^{-34} \text{ JS}$
 Mass of electron, $m = 9.1 \times 10^{-31} \text{ kg}$
 Boltzmann constant, $K = 1.38 \times 10^{-23} \text{ JK}^{-1}$
 Avogadro number, $N_A = 6.02 \times 10^{23} / \text{Kmol}$

Module-1

- 1**
- Show that Planck's law reduces to Wein's law and Rayleigh-Jeans law at lower and higher wavelength limits respectively. (06 Marks)
 - Setup time independent Schrodinger wave equation in one dimension. (06 Marks)
 - A particle of mass $940 \text{ MeV}/c^2$ has kinetic energy 0.5 KeV . Find its de-Broglie wavelength, c is velocity of light. (04 Marks)

OR

- 2**
- Define phase velocity and group velocity. Obtain the relation between them. (06 Marks)
 - Using Heisenberg's uncertainty principle, prove that electrons cannot exist in a nucleus. (06 Marks)
 - The first excited state energy of ψ electron in an infinite well is 240 eV . What will be its ground state energy when the width of the potential well is doubled? (04 Marks)

Module-2

- 3**
- What is Fermi energy? Discuss the probability of occupation of various energy states by electron at $T = 0\text{K}$ and $T \geq 0\text{K}$ on the basis of Fermi factor. (06 Marks)
 - What is Meissner's effect? Explain Type-I and Type-II super conductors. (06 Marks)
 - The effective mass for the electron in germanium is $0.55 m_0$, where m_0 is the free electron mass. Find the electron concentration in Germanium at 300 K , assuming that the Fermi level lies exactly in the middle of the energy gap, given that the energy gap for Germanium is 0.66 eV . (04 Marks)

OR

- 4**
- Explain the success of quantum free electron theory. (06 Marks)
 - Explain the law of mass action and derive the expression for electrical conductivity of a semiconductor. (06 Marks)
 - Find the relaxation time of conduction electrons in a metal of resistivity $1.54 \times 10^{-8} \text{ ohm-m}$, if the metal has 5.8×10^{28} conduction electrons per m^3 . (04 Marks)

Module-3

- 5**
- Obtain an expression for energy density of radiation in terms of Einstein's coefficients. (06 Marks)
 - What is numerical aperture? Obtain an expression for numerical aperture in terms of refractive indices of core and cladding of an optical fiber. (06 Marks)
 - The ratio of population of two energy levels is 1.059×10^{-30} . Find the wavelength of light emitted at 330 K . (04 Marks)

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Table of Contents Vtu Engineering Physics Papers

1. Understanding the eBook Vtu Engineering Physics Papers
 - The Rise of Digital Reading Vtu Engineering Physics Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Vtu Engineering Physics Papers
 - 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 Vtu Engineering Physics Papers
- User-Friendly Interface
- 4. Exploring eBook Recommendations from Vtu Engineering Physics Papers
 - Personalized Recommendations
 - Vtu Engineering Physics Papers User Reviews and Ratings
 - Vtu Engineering Physics Papers and Bestseller Lists
- 5. Accessing Vtu Engineering Physics Papers Free and Paid eBooks
 - Vtu Engineering Physics Papers Public Domain eBooks
 - Vtu Engineering Physics Papers eBook Subscription Services
 - Vtu Engineering Physics Papers Budget-Friendly Options
- 6. Navigating Vtu Engineering Physics Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Vtu Engineering Physics Papers Compatibility with Devices
 - Vtu Engineering Physics Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Vtu Engineering Physics Papers
 - Highlighting and Note-Taking Vtu Engineering Physics Papers
 - Interactive Elements Vtu Engineering Physics Papers
- 8. Staying Engaged with Vtu Engineering Physics Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vtu Engineering Physics Papers
- 9. Balancing eBooks and Physical Books Vtu Engineering Physics Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vtu Engineering Physics Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Vtu Engineering Physics Papers

- Setting Reading Goals Vtu Engineering Physics Papers
- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Vtu Engineering Physics Papers
 - Fact-Checking eBook Content of Vtu Engineering Physics Papers
 - 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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