

First/Second Semester B.E. Degree Examination, June/July 2016
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: Planck's constant $h = 6.63 \times 10^{-34}$ JS, Mass of electron $m = 9.11 \times 10^{-31}$ kg, Boltzmann constant $K = 1.38 \times 10^{-23}$ JK⁻¹, Avogadro number $N_A = 6.025 \times 10^{26}$ /K mol, Velocity of light $C = 3 \times 10^8$ ms⁻¹.

Module-1

1.
 - a. Mention the assumptions of Planck's law. Arrive at the relation for Wien's law from Planck's law. (06 Marks)
 - b. State Heisenberg's uncertainty principle. Show that electrons cannot exist inside the nucleus. (06 Marks)
 - c. Calculate the deBroglie wavelength associated with neutron of mass 1.674×10^{-27} kg with one tenth part of the velocity of light. (04 Marks)

OR

2.
 - a. What is phase velocity and group velocity? Show that group velocity is equal to particle velocity. (06 Marks)
 - b. Obtain normalized wave function, with respect to a particle inside an one dimensional potential well. (06 Marks)
 - c. An electron is bound in one dimensional potential well of width 0.18 nm. Find the energy value in eV of the second excited state. (04 Marks)

Module-2

3.
 - a. Explain the failure of classical free electron theory. (06 Marks)
 - b. State law of mass action and derive the expression for electrical conductivity of a semiconductor. (06 Marks)
 - c. A superconducting tin has a critical field of 306 gauss at 0 K and 217 gauss at 2 K. Find the critical temperature of superconducting tin. (04 Marks)

OR

4.
 - a. What is Fermi factor? Discuss the variation of fermifactor with temperature. (06 Marks)
 - b. Write a note on High temperature super conductors. (06 Marks)
 - c. Calculate the mobility of electrons in copper assuming that each atom contribute one free electron for conduction. Resistivity of copper = 1.7×10^{-8} Ωm, atomic weight = 63.54, density = 8.96×10^3 kg/m³. (04 Marks)

Module-3

5.
 - a. Explain the construction and working of semiconductor laser. (06 Marks)
 - b. Discuss the three different types of optical fibres. (06 Marks)
 - c. The ratio of population of two energy levels out of which one corresponds to metastable state is 1.059×10^{-30} . Find the wavelength of light emitted at 330 K. (04 Marks)

Engineering Physics First Year Question Paper

Mike Jess



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Table of Contents Engineering Physics First Year Question Paper

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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web saluran udara tegangan rendah sutr merupakan saluran distribusi dari sistem tenaga listrik dengan tegangan di bawah 1000 volt 6 30 kv sutr ini merupakan jaringan yang langsung menghubungkan pasokan listrik tegangan rendah kepada konsumen

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