

**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<sup>-1</sup>, Avogadro number  $N_A = 6.025 \times 10^{26}$ /K mol, Velocity of light  $C = 3 \times 10^8$  ms<sup>-1</sup>.

**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  $1.674 \times 10^{-27}$  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 =  $1.7 \times 10^{-8}$  Ωm, atomic weight = 63.54, density =  $8.96 \times 10^3$  kg/m<sup>3</sup>. (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  $1.059 \times 10^{-30}$ . Find the wavelength of light emitted at 330 K. (04 Marks)

# Engineering Physics Question Papers

**Lingsheng Yao**



## **Engineering Physics Question Papers:**

Problems and Solutions in Engineering Physics: Solved Numerical Problems and Question Papers Gopal, 2005-02-01

**Engineering Physics Theory And Experiments** S.K. Srivastava, 2006 This Book Is Based On The Common Core Syllabus Of Up Technical University It Explains In A Simple And Systematic Manner The Basic Principles And Applications Of Engineering Physics After Explaining The Special Theory Of Relativity The Book Presents A Detailed Analysis Of Optics Scalar And Vector Fields Are Explained Next Followed By Electrostatics Magnetic Properties Of Materials Are Then Described The Basic Concepts And Applications Of X Rays Are Highlighted Next Quantum Theory Is Then Explained Followed By A Lucid Account Of Lasers After Explaining The Basic Theory The Book Presents A Series Of Interesting Experiments To Enable The Students To Acquire A Practical Knowledge Of The Subject A Large Number Of Questions And Model Test Papers Have Also Been Added Different Chapters Have Been Revised And More Numerical Problems As Per Requirement Have Been Added The Book Would Serve As An Excellent Text For First Year Engineering Students Diploma Students Would Also Find It Extremely Useful Textbook Of Engineering Physics - Jain, Jain Mahesh C., 2013-01-01 Oswaal CDS Previous Years 12 Solved Question Papers English (2018-2023) For 2024 Exam Oswaal Editorial Board, 2023-10-25 Description of the product 100% updated with Fully Solved Paper of April September 2023 Concept Clarity with detailed explanations of 2018 to 2023 Papers Extensive Practice with 1500 Questions and Two Sample Question Papers Crisp Revision with Mind Maps Expert Tips helps you get expert knowledge master crack CDS in first attempt Exam insights with 5 Year wise 2023 2019 Trend Analysis empowering students to be 100% exam ready **Oswaal CDS Previous Years 12 Solved Question Papers Elementary Mathematics, English & GK (Set of 3 Books) For 2024 Exam** Oswaal Editorial Board, 2023-10-28 Description of the Product 100% updated with Fully Solved Paper of April September 2023 Concept Clarity with detailed explanations of 2018 to 2023 Papers Extensive Practice with 1500 Questions and Two Sample Question Papers Crisp Revision with Mind Maps Expert Tips helps you get expert knowledge master crack CDS in first attempt Exam insights with 5 Year wise 2023 2019 Trend Analysis empowering students to be 100% exam ready **Applied Physics** S. Mani Naidu, 2010 Applied Physics is designed to cater to the needs of first year undergraduate engineering students of Jawaharlal Nehru Technical University J N T U Written in a lucid style this book assimilates the best practices of conceptual pedagogy dealing at length with various topics such as crystallography principles of quantum mechanics free electron theory of metals dielectric and magnetic properties semi conductors superconductivity lasers holography and nanotechnology **Oswaal 164 Chapter-wise & Topic-wise Solved Papers JEE (Main) | Online (2012-2024) & Offline (2002-2018) | Mathematics Book | For 2025 Exams**, 2024-05-29 Benefits of the product 100% Updated with 146 Online 2012 2024 18 Offline 2002 2018 Papers including 2024 All 20 sets of Papers Extensive Practice No of Questions Physics 2000 Chemistry 1700 Mathematics 1300 Concept Clarity with Chapter wise On Tips Notes Concept based videos Mind Maps Mnemonics and Appendix Valuable Exam Insights

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