

B.E./IB.Tech. DEGREE EXAMINATION, MAY/JUNE 2009.

Second Semester

Civil Engineering

PH 2161 - ENGINEERING PHYSICS - II

(Common to all branches of B.E./IB.Tech.)

(Regulation 2008)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A - (10 x 2 = 20 marks)

1. Define the terms
(a) relaxation time and
(b) mobility.
2. What are the main drawbacks of classical free electron theory of metals?
3. What is meant by Fermi energy? What is physical significance?
4. What is meant by Hall effect? Write an expression for the Hall coefficient.
5. Distinguish between intrinsic and extrinsic semiconductors.
6. What do you understand by the terms "critical temperature" and "critical field" of a superconductor?
7. Distinguish between soft and hard magnets.
8. Mention four types of polarization mechanisms that can take place in the presence of an electric field in dielectric materials.
9. What are shape memory alloys? What are their properties?
10. What are the applications of carbon nanotubes?

PART B - (5 x 16 = 80 marks)

11. (a) (i) State the assumption of the classical free electron model. (4)
(ii) Obtain an expression for the electrical conductivity of a metal on the basis of classical free electron theory. (8)
(iii) The mobility of electron in copper is $3 \times 10^{-3} \text{ m}^2/\text{Vs}$. Assuming $e = 1.6 \times 10^{-19} \text{ C}$ and $m_e = 9.1 \times 10^{-31} \text{ kg}$, calculate the mean free time. (4)

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Table of Contents Ph2161 Engineering Physics

1. Understanding the eBook Ph2161 Engineering Physics
 - The Rise of Digital Reading Ph2161 Engineering Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Ph2161 Engineering Physics
 - 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 Ph2161 Engineering Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ph2161 Engineering Physics
 - Personalized Recommendations
 - Ph2161 Engineering Physics User Reviews and Ratings
 - Ph2161 Engineering Physics and Bestseller Lists
5. Accessing Ph2161 Engineering Physics Free and Paid eBooks
 - Ph2161 Engineering Physics Public Domain eBooks
 - Ph2161 Engineering Physics eBook Subscription Services
 - Ph2161 Engineering Physics Budget-Friendly Options

6. Navigating Ph2161 Engineering Physics eBook Formats
 - ePub, PDF, MOBI, and More
 - Ph2161 Engineering Physics Compatibility with Devices
 - Ph2161 Engineering Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ph2161 Engineering Physics
 - Highlighting and Note-Taking Ph2161 Engineering Physics
 - Interactive Elements Ph2161 Engineering Physics
8. Staying Engaged with Ph2161 Engineering Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ph2161 Engineering Physics
9. Balancing eBooks and Physical Books Ph2161 Engineering Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ph2161 Engineering Physics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ph2161 Engineering Physics
 - Setting Reading Goals Ph2161 Engineering Physics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ph2161 Engineering Physics
 - Fact-Checking eBook Content of Ph2161 Engineering Physics
 - 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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