

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

**Attempt (Any Five) Questions.**

1. a) Define the terms; Electric current, voltage, power and energy. [8]  
b) Define Resistor and capacitor. What will be the current drawn by a lamp rated at 250v, 40 watts connected to a 230v supply? [4+4]
2. a) State and prove Ohm's law with suitable example. [8]  
b) The effective resistance of two resistors connected in series is  $100\Omega$ . When connected in parallel the effective value is  $24\Omega$ . Determine the values of the two resistors. [8]
3. a) Differentiate between Dia, para and ferro-magnetic material. [8]  
b) Derive series and parallel connection of capacitor. [8]
4. a) Define magnetic field and magnetic flux. Also explain the hysteresis loop for magnetic material. [8]  
b) Derive the energy stored in current carrying inductor. [8]
5. a) What is Lenz's law? Explain dynamically induced emf and statistically induced emf. [10]  
b) Explain in detail about Faraday's laws of Electromagnetic induction. [6]
6. Write short notes on : (Any Four) [4x4=16]
  - a) resistance and its variation with temperature
  - b) Electrostatic induction phenomena.
  - c) KVL circuit
  - d) Faraday's law of electrolysis
  - e) Lead acid cell
  - f) Soft and hard magnetic material

Good luck !

# Diploma In Electrical Ac Machines Question Paper

**RD Boyd**



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## **Table of Contents Diploma In Electrical Ac Machines Question Paper**

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

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