

**Cork Institute of Technology**  
**Bachelor of Engineering in Building Services Engineering – Stage 2**  
**(EBSEN\_7\_Y2)**  
**Summer 2008**  
**Electrotechnology**  
**(Time: 3 hours)**

Answer THREE questions from Section A  
and TWO questions from Section B.  
Use separate answer books for each Section.  
All questions carry equal marks.

Examiner: Mr. S. Bojovic  
Dr. M. Smyth  
Mr. D. Leonard

**Section A**

- Q1. (a) A coil of insulated wire of resistance  $8\ \Omega$  and inductance  $0.03\ \text{H}$  is connected to an a.c. supply at  $240\ \text{V}$   $50\text{Hz}$ . Draw the circuit and calculate:
- (i) the current through the coil
  - (ii) power factor
  - (iii) the power consumed by the coil (6 marks)
- (b) Calculate the value of capacitance which when connected in series with the above coil, causes no change in the values of the current and power taken from the supply. (6 marks)
- (c) A coil of resistance  $100\ \Omega$  and inductance  $100\ \mu\text{H}$  is connected in series with a  $100\ \text{pF}$  capacitor. The circuit is connected to a  $10\ \text{V}$  variable frequency supply. Draw the circuit and calculate:
- (i) the resonant frequency
  - (ii) current at resonance
  - (iii) voltage across L and C at resonance
  - (iv) Q factor of the circuit (8 marks)

# Electrotechnology Final Exam Question Paper For 13 November 2014

**Hongru Du**



**Electrotechnology Final Exam Question Paper For 13 November 2014:**

## **Electrotechnology Final Exam Question Paper For 13 November 2014** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Electrotechnology Final Exam Question Paper For 13 November 2014**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Electrotechnology Final Exam Question Paper For 13 November 2014**

1. Understanding the eBook Electrotechnology Final Exam Question Paper For 13 November 2014
  - The Rise of Digital Reading Electrotechnology Final Exam Question Paper For 13 November 2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Electrotechnology Final Exam Question Paper For 13 November 2014
  - 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 Electrotechnology Final Exam Question Paper For 13 November 2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electrotechnology Final Exam Question Paper For 13 November 2014
  - Personalized Recommendations
  - Electrotechnology Final Exam Question Paper For 13 November 2014 User Reviews and Ratings
  - Electrotechnology Final Exam Question Paper For 13 November 2014 and Bestseller Lists

5. Accessing Electrotechnology Final Exam Question Paper For 13 November 2014 Free and Paid eBooks
  - Electrotechnology Final Exam Question Paper For 13 November 2014 Public Domain eBooks
  - Electrotechnology Final Exam Question Paper For 13 November 2014 eBook Subscription Services
  - Electrotechnology Final Exam Question Paper For 13 November 2014 Budget-Friendly Options
6. Navigating Electrotechnology Final Exam Question Paper For 13 November 2014 eBook Formats
  - ePub, PDF, MOBI, and More
  - Electrotechnology Final Exam Question Paper For 13 November 2014 Compatibility with Devices
  - Electrotechnology Final Exam Question Paper For 13 November 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electrotechnology Final Exam Question Paper For 13 November 2014
  - Highlighting and Note-Taking Electrotechnology Final Exam Question Paper For 13 November 2014
  - Interactive Elements Electrotechnology Final Exam Question Paper For 13 November 2014
8. Staying Engaged with Electrotechnology Final Exam Question Paper For 13 November 2014
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electrotechnology Final Exam Question Paper For 13 November 2014
9. Balancing eBooks and Physical Books Electrotechnology Final Exam Question Paper For 13 November 2014
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electrotechnology Final Exam Question Paper For 13 November 2014
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electrotechnology Final Exam Question Paper For 13 November 2014
  - Setting Reading Goals Electrotechnology Final Exam Question Paper For 13 November 2014
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electrotechnology Final Exam Question Paper For 13 November 2014
  - Fact-Checking eBook Content of Electrotechnology Final Exam Question Paper For 13 November 2014
  - 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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