

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 $240\ \text{V}$ 50Hz . 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)

N3 Electrotechnology 2013 November Exam Papers

Tommy Ferreira



N3 Electrotechnology 2013 November Exam Papers:

This book delves into N3 Electrotechnology 2013 November Exam Papers. N3 Electrotechnology 2013 November Exam Papers is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into N3 Electrotechnology 2013 November Exam Papers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to N3 Electrotechnology 2013 November Exam Papers
 - Chapter 2: Essential Elements of N3 Electrotechnology 2013 November Exam Papers
 - Chapter 3: N3 Electrotechnology 2013 November Exam Papers in Everyday Life
 - Chapter 4: N3 Electrotechnology 2013 November Exam Papers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of N3 Electrotechnology 2013 November Exam Papers. The first chapter will explore what N3 Electrotechnology 2013 November Exam Papers is, why N3 Electrotechnology 2013 November Exam Papers is vital, and how to effectively learn about N3 Electrotechnology 2013 November Exam Papers.
 3. In chapter 2, this book will delve into the foundational concepts of N3 Electrotechnology 2013 November Exam Papers. The second chapter will elucidate the essential principles that need to be understood to grasp N3 Electrotechnology 2013 November Exam Papers in its entirety.
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 6. In chapter 5, the author will draw a conclusion about N3 Electrotechnology 2013 November Exam Papers. The final chapter will summarize the key points that have been discussed throughout the book.
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Table of Contents N3 Electrotechnology 2013 November Exam Papers

1. Understanding the eBook N3 Electrotechnology 2013 November Exam Papers
 - The Rise of Digital Reading N3 Electrotechnology 2013 November Exam Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying N3 Electrotechnology 2013 November Exam Papers
 - 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 N3 Electrotechnology 2013 November Exam Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from N3 Electrotechnology 2013 November Exam Papers
 - Personalized Recommendations
 - N3 Electrotechnology 2013 November Exam Papers User Reviews and Ratings
 - N3 Electrotechnology 2013 November Exam Papers and Bestseller Lists
5. Accessing N3 Electrotechnology 2013 November Exam Papers Free and Paid eBooks
 - N3 Electrotechnology 2013 November Exam Papers Public Domain eBooks
 - N3 Electrotechnology 2013 November Exam Papers eBook Subscription Services
 - N3 Electrotechnology 2013 November Exam Papers Budget-Friendly Options
6. Navigating N3 Electrotechnology 2013 November Exam Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - N3 Electrotechnology 2013 November Exam Papers Compatibility with Devices
 - N3 Electrotechnology 2013 November Exam Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N3 Electrotechnology 2013 November Exam Papers
 - Highlighting and Note-Taking N3 Electrotechnology 2013 November Exam Papers
 - Interactive Elements N3 Electrotechnology 2013 November Exam Papers

8. Staying Engaged with N3 Electrotechnology 2013 November Exam Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N3 Electrotechnology 2013 November Exam Papers
9. Balancing eBooks and Physical Books N3 Electrotechnology 2013 November Exam Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N3 Electrotechnology 2013 November Exam Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine N3 Electrotechnology 2013 November Exam Papers
 - Setting Reading Goals N3 Electrotechnology 2013 November Exam Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of N3 Electrotechnology 2013 November Exam Papers
 - Fact-Checking eBook Content of N3 Electrotechnology 2013 November Exam Papers
 - 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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