

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)

Memorandum Of Electrotechnology August 20n3

Robert R. Redfield



Memorandum Of Electrotechnology August 20n3:

Embracing the Tune of Term: An Emotional Symphony within **Memorandum Of Electrotechnology August 20n3**

In some sort of eaten by monitors and the ceaseless chatter of immediate transmission, the melodic splendor and psychological symphony produced by the prepared term usually diminish into the back ground, eclipsed by the persistent noise and disruptions that permeate our lives. Nevertheless, set within the pages of **Memorandum Of Electrotechnology August 20n3** a charming literary value overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this fascinating masterpiece conducts viewers on an emotional journey, skillfully unraveling the concealed melodies and profound impact resonating within each carefully crafted phrase. Within the depths with this touching analysis, we will explore the book is key harmonies, analyze its enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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Table of Contents Memorandum Of Electrotechnology August 20n3

1. Understanding the eBook Memorandum Of Electrotechnology August 20n3
 - The Rise of Digital Reading Memorandum Of Electrotechnology August 20n3
 - Advantages of eBooks Over Traditional Books
2. Identifying Memorandum Of Electrotechnology August 20n3
 - 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 Memorandum Of Electrotechnology August 20n3
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memorandum Of Electrotechnology August 20n3
 - Personalized Recommendations

- Memorandum Of Electrotechnology August 20n3 User Reviews and Ratings
- Memorandum Of Electrotechnology August 20n3 and Bestseller Lists
- 5. Accessing Memorandum Of Electrotechnology August 20n3 Free and Paid eBooks
 - Memorandum Of Electrotechnology August 20n3 Public Domain eBooks
 - Memorandum Of Electrotechnology August 20n3 eBook Subscription Services
 - Memorandum Of Electrotechnology August 20n3 Budget-Friendly Options
- 6. Navigating Memorandum Of Electrotechnology August 20n3 eBook Formats
 - ePub, PDF, MOBI, and More
 - Memorandum Of Electrotechnology August 20n3 Compatibility with Devices
 - Memorandum Of Electrotechnology August 20n3 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Memorandum Of Electrotechnology August 20n3
 - Highlighting and Note-Taking Memorandum Of Electrotechnology August 20n3
 - Interactive Elements Memorandum Of Electrotechnology August 20n3
- 8. Staying Engaged with Memorandum Of Electrotechnology August 20n3
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Memorandum Of Electrotechnology August 20n3
- 9. Balancing eBooks and Physical Books Memorandum Of Electrotechnology August 20n3
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Memorandum Of Electrotechnology August 20n3
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Memorandum Of Electrotechnology August 20n3
 - Setting Reading Goals Memorandum Of Electrotechnology August 20n3
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Memorandum Of Electrotechnology August 20n3
 - Fact-Checking eBook Content of Memorandum Of Electrotechnology August 20n3

- 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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