

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)

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Table of Contents 14 Electrotechnology Exam Paper And Memo

1. Understanding the eBook 14 Electrotechnology Exam Paper And Memo
 - The Rise of Digital Reading 14 Electrotechnology Exam Paper And Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying 14 Electrotechnology Exam Paper And Memo
 - 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 14 Electrotechnology Exam Paper And Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14 Electrotechnology Exam Paper And Memo
 - Personalized Recommendations
 - 14 Electrotechnology Exam Paper And Memo User Reviews and Ratings
 - 14 Electrotechnology Exam Paper And Memo and Bestseller Lists

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 - 14 Electrotechnology Exam Paper And Memo Public Domain eBooks
 - 14 Electrotechnology Exam Paper And Memo eBook Subscription Services
 - 14 Electrotechnology Exam Paper And Memo Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - 14 Electrotechnology Exam Paper And Memo Compatibility with Devices
 - 14 Electrotechnology Exam Paper And Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Electrotechnology Exam Paper And Memo
 - Highlighting and Note-Taking 14 Electrotechnology Exam Paper And Memo
 - Interactive Elements 14 Electrotechnology Exam Paper And Memo
8. Staying Engaged with 14 Electrotechnology Exam Paper And Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Electrotechnology Exam Paper And Memo
9. Balancing eBooks and Physical Books 14 Electrotechnology Exam Paper And Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Electrotechnology Exam Paper And Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 14 Electrotechnology Exam Paper And Memo
 - Setting Reading Goals 14 Electrotechnology Exam Paper And Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 14 Electrotechnology Exam Paper And Memo
 - Fact-Checking eBook Content of 14 Electrotechnology Exam Paper And Memo
 - 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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