

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)

Electrotechnology August 2013 Exam Paper

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Table of Contents Electrotechnology August 2013 Exam Paper

1. Understanding the eBook Electrotechnology August 2013 Exam Paper
 - The Rise of Digital Reading Electrotechnology August 2013 Exam Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrotechnology August 2013 Exam 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 Electrotechnology August 2013 Exam Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrotechnology August 2013 Exam Paper
 - Personalized Recommendations
 - Electrotechnology August 2013 Exam Paper User Reviews and Ratings
 - Electrotechnology August 2013 Exam Paper and Bestseller Lists
5. Accessing Electrotechnology August 2013 Exam Paper Free and Paid eBooks
 - Electrotechnology August 2013 Exam Paper Public Domain eBooks
 - Electrotechnology August 2013 Exam Paper eBook Subscription Services
 - Electrotechnology August 2013 Exam Paper Budget-Friendly Options
6. Navigating Electrotechnology August 2013 Exam Paper eBook Formats

- ePub, PDF, MOBI, and More
 - Electrotechnology August 2013 Exam Paper Compatibility with Devices
 - Electrotechnology August 2013 Exam Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrotechnology August 2013 Exam Paper
 - Highlighting and Note-Taking Electrotechnology August 2013 Exam Paper
 - Interactive Elements Electrotechnology August 2013 Exam Paper
 8. Staying Engaged with Electrotechnology August 2013 Exam Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrotechnology August 2013 Exam Paper
 9. Balancing eBooks and Physical Books Electrotechnology August 2013 Exam Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrotechnology August 2013 Exam Paper
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Electrotechnology August 2013 Exam Paper
 - Setting Reading Goals Electrotechnology August 2013 Exam Paper
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Electrotechnology August 2013 Exam Paper
 - Fact-Checking eBook Content of Electrotechnology August 2013 Exam 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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