

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 November 2012 Electrotechnology Memo

1. Understanding the eBook November 2012 Electrotechnology Memo
 - The Rise of Digital Reading November 2012 Electrotechnology Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2012 Electrotechnology 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 November 2012 Electrotechnology Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2012 Electrotechnology Memo

- Personalized Recommendations
- November 2012 Electrotechnology Memo User Reviews and Ratings
- November 2012 Electrotechnology Memo and Bestseller Lists
- 5. Accessing November 2012 Electrotechnology Memo Free and Paid eBooks
 - November 2012 Electrotechnology Memo Public Domain eBooks
 - November 2012 Electrotechnology Memo eBook Subscription Services
 - November 2012 Electrotechnology Memo Budget-Friendly Options
- 6. Navigating November 2012 Electrotechnology Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - November 2012 Electrotechnology Memo Compatibility with Devices
 - November 2012 Electrotechnology Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2012 Electrotechnology Memo
 - Highlighting and Note-Taking November 2012 Electrotechnology Memo
 - Interactive Elements November 2012 Electrotechnology Memo
- 8. Staying Engaged with November 2012 Electrotechnology Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2012 Electrotechnology Memo
- 9. Balancing eBooks and Physical Books November 2012 Electrotechnology Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2012 Electrotechnology Memo
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine November 2012 Electrotechnology Memo
 - Setting Reading Goals November 2012 Electrotechnology Memo
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of November 2012 Electrotechnology Memo

- Fact-Checking eBook Content of November 2012 Electrotechnology 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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