

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 Electrotechnology Nquestion Papers And Memos

1. Understanding the eBook Electrotechnology Nquestion Papers And Memos
 - The Rise of Digital Reading Electrotechnology Nquestion Papers And Memos
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrotechnology Nquestion Papers And Memos
 - 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 Nquestion Papers And Memos
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrotechnology Nquestion Papers And Memos

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

- Fact-Checking eBook Content of Electrotechnology Nquestion Papers And Memos
- 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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