

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 Nquestion Paper

Hussin A.Rothana



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Table of Contents Electrotechnology Nquestion Paper

1. Understanding the eBook Electrotechnology Nquestion Paper
 - The Rise of Digital Reading Electrotechnology Nquestion Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrotechnology Nquestion 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 Nquestion Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrotechnology Nquestion Paper
 - Personalized Recommendations
 - Electrotechnology Nquestion Paper User Reviews and Ratings
 - Electrotechnology Nquestion Paper and Bestseller Lists
5. Accessing Electrotechnology Nquestion Paper Free and Paid eBooks
 - Electrotechnology Nquestion Paper Public Domain eBooks

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