

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 Nnov 2question Papers

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

- ePub, PDF, MOBI, and More
 - Electrotechnology Nnov 2question Papers Compatibility with Devices
 - Electrotechnology Nnov 2question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrotechnology Nnov 2question Papers
 - Highlighting and Note-Taking Electrotechnology Nnov 2question Papers
 - Interactive Elements Electrotechnology Nnov 2question Papers
 8. Staying Engaged with Electrotechnology Nnov 2question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrotechnology Nnov 2question Papers
 9. Balancing eBooks and Physical Books Electrotechnology Nnov 2question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrotechnology Nnov 2question Papers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Electrotechnology Nnov 2question Papers
 - Setting Reading Goals Electrotechnology Nnov 2question Papers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Electrotechnology Nnov 2question Papers
 - Fact-Checking eBook Content of Electrotechnology Nnov 2question Papers
 - 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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