

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 N3 Past Exam Papers

1. Understanding the eBook Electrotechnology N3 Past Exam Papers
 - The Rise of Digital Reading Electrotechnology N3 Past Exam Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrotechnology N3 Past Exam 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 N3 Past Exam Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrotechnology N3 Past Exam Papers
 - Personalized Recommendations
 - Electrotechnology N3 Past Exam Papers User Reviews and Ratings
 - Electrotechnology N3 Past Exam Papers and Bestseller Lists
5. Accessing Electrotechnology N3 Past Exam Papers Free and Paid eBooks
 - Electrotechnology N3 Past Exam Papers Public Domain eBooks
 - Electrotechnology N3 Past Exam Papers eBook Subscription Services
 - Electrotechnology N3 Past Exam Papers Budget-Friendly Options
6. Navigating Electrotechnology N3 Past Exam Papers eBook Formats

- ePub, PDF, MOBI, and More
- Electrotechnology N3 Past Exam Papers Compatibility with Devices
- Electrotechnology N3 Past Exam Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrotechnology N3 Past Exam Papers
 - Highlighting and Note-Taking Electrotechnology N3 Past Exam Papers
 - Interactive Elements Electrotechnology N3 Past Exam Papers
- 8. Staying Engaged with Electrotechnology N3 Past Exam Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrotechnology N3 Past Exam Papers
- 9. Balancing eBooks and Physical Books Electrotechnology N3 Past Exam Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrotechnology N3 Past Exam Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electrotechnology N3 Past Exam Papers
 - Setting Reading Goals Electrotechnology N3 Past Exam Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electrotechnology N3 Past Exam Papers
 - Fact-Checking eBook Content of Electrotechnology N3 Past Exam 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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