

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 N3 Electrotechnology Exam Papers Memorandum August 2014

1. Understanding the eBook N3 Electrotechnology Exam Papers Memorandum August 2014
 - The Rise of Digital Reading N3 Electrotechnology Exam Papers Memorandum August 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying N3 Electrotechnology Exam Papers Memorandum August 2014
 - 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 N3 Electrotechnology Exam Papers Memorandum August 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from N3 Electrotechnology Exam Papers Memorandum August 2014

- Personalized Recommendations
 - N3 Electrotechnology Exam Papers Memorandum August 2014 User Reviews and Ratings
 - N3 Electrotechnology Exam Papers Memorandum August 2014 and Bestseller Lists
5. Accessing N3 Electrotechnology Exam Papers Memorandum August 2014 Free and Paid eBooks
 - N3 Electrotechnology Exam Papers Memorandum August 2014 Public Domain eBooks
 - N3 Electrotechnology Exam Papers Memorandum August 2014 eBook Subscription Services
 - N3 Electrotechnology Exam Papers Memorandum August 2014 Budget-Friendly Options
 6. Navigating N3 Electrotechnology Exam Papers Memorandum August 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - N3 Electrotechnology Exam Papers Memorandum August 2014 Compatibility with Devices
 - N3 Electrotechnology Exam Papers Memorandum August 2014 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N3 Electrotechnology Exam Papers Memorandum August 2014
 - Highlighting and Note-Taking N3 Electrotechnology Exam Papers Memorandum August 2014
 - Interactive Elements N3 Electrotechnology Exam Papers Memorandum August 2014
 8. Staying Engaged with N3 Electrotechnology Exam Papers Memorandum August 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N3 Electrotechnology Exam Papers Memorandum August 2014
 9. Balancing eBooks and Physical Books N3 Electrotechnology Exam Papers Memorandum August 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N3 Electrotechnology Exam Papers Memorandum August 2014
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine N3 Electrotechnology Exam Papers Memorandum August 2014
 - Setting Reading Goals N3 Electrotechnology Exam Papers Memorandum August 2014
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of N3 Electrotechnology Exam Papers Memorandum August 2014

- Fact-Checking eBook Content of N3 Electrotechnology Exam Papers Memorandum August 2014
- 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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