

**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  $240\ \text{V}$   $50\text{Hz}$ . 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 Previous Question Paper 2012 November**

1. Understanding the eBook N3 Electrotechnology Previous Question Paper 2012 November
  - The Rise of Digital Reading N3 Electrotechnology Previous Question Paper 2012 November
  - Advantages of eBooks Over Traditional Books
2. Identifying N3 Electrotechnology Previous Question Paper 2012 November
  - 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 Previous Question Paper 2012 November
  - User-Friendly Interface
4. Exploring eBook Recommendations from N3 Electrotechnology Previous Question Paper 2012 November

- Personalized Recommendations
  - N3 Electrotechnology Previous Question Paper 2012 November User Reviews and Ratings
  - N3 Electrotechnology Previous Question Paper 2012 November and Bestseller Lists
5. Accessing N3 Electrotechnology Previous Question Paper 2012 November Free and Paid eBooks
    - N3 Electrotechnology Previous Question Paper 2012 November Public Domain eBooks
    - N3 Electrotechnology Previous Question Paper 2012 November eBook Subscription Services
    - N3 Electrotechnology Previous Question Paper 2012 November Budget-Friendly Options
  6. Navigating N3 Electrotechnology Previous Question Paper 2012 November eBook Formats
    - ePub, PDF, MOBI, and More
    - N3 Electrotechnology Previous Question Paper 2012 November Compatibility with Devices
    - N3 Electrotechnology Previous Question Paper 2012 November Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of N3 Electrotechnology Previous Question Paper 2012 November
    - Highlighting and Note-Taking N3 Electrotechnology Previous Question Paper 2012 November
    - Interactive Elements N3 Electrotechnology Previous Question Paper 2012 November
  8. Staying Engaged with N3 Electrotechnology Previous Question Paper 2012 November
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers N3 Electrotechnology Previous Question Paper 2012 November
  9. Balancing eBooks and Physical Books N3 Electrotechnology Previous Question Paper 2012 November
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection N3 Electrotechnology Previous Question Paper 2012 November
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine N3 Electrotechnology Previous Question Paper 2012 November
    - Setting Reading Goals N3 Electrotechnology Previous Question Paper 2012 November
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of N3 Electrotechnology Previous Question Paper 2012 November

- Fact-Checking eBook Content of N3 Electrotechnology Previous Question Paper 2012 November
- 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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