

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 Questions Paper Electrotechnology N3 And Answers

1. Understanding the eBook Questions Paper Electrotechnology N3 And Answers
 - The Rise of Digital Reading Questions Paper Electrotechnology N3 And Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Questions Paper Electrotechnology N3 And Answers
 - 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 Questions Paper Electrotechnology N3 And Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Questions Paper Electrotechnology N3 And Answers
 - Personalized Recommendations
 - Questions Paper Electrotechnology N3 And Answers User Reviews and Ratings
 - Questions Paper Electrotechnology N3 And Answers and Bestseller Lists
5. Accessing Questions Paper Electrotechnology N3 And Answers Free and Paid eBooks
 - Questions Paper Electrotechnology N3 And Answers Public Domain eBooks

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