

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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H Kauffman



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Table of Contents Electrotechnology 2july 2nquestion Paper

1. Understanding the eBook Electrotechnology 2july 2nquestion Paper
 - The Rise of Digital Reading Electrotechnology 2july 2nquestion Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrotechnology 2july 2nquestion Paper
 - 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 2july 2nquestion Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrotechnology 2july 2nquestion Paper

- Personalized Recommendations
 - Electrotechnology 2july 2nquestion Paper User Reviews and Ratings
 - Electrotechnology 2july 2nquestion Paper and Bestseller Lists
5. Accessing Electrotechnology 2july 2nquestion Paper Free and Paid eBooks
- Electrotechnology 2july 2nquestion Paper Public Domain eBooks
 - Electrotechnology 2july 2nquestion Paper eBook Subscription Services
 - Electrotechnology 2july 2nquestion Paper Budget-Friendly Options
6. Navigating Electrotechnology 2july 2nquestion Paper eBook Formats
- ePub, PDF, MOBI, and More
 - Electrotechnology 2july 2nquestion Paper Compatibility with Devices
 - Electrotechnology 2july 2nquestion Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Electrotechnology 2july 2nquestion Paper
 - Highlighting and Note-Taking Electrotechnology 2july 2nquestion Paper
 - Interactive Elements Electrotechnology 2july 2nquestion Paper
8. Staying Engaged with Electrotechnology 2july 2nquestion Paper
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrotechnology 2july 2nquestion Paper
9. Balancing eBooks and Physical Books Electrotechnology 2july 2nquestion Paper
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrotechnology 2july 2nquestion Paper
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Electrotechnology 2july 2nquestion Paper
- Setting Reading Goals Electrotechnology 2july 2nquestion Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electrotechnology 2july 2nquestion Paper

- Fact-Checking eBook Content of Electrotechnology 2july 2nquestion Paper
- 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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