Cork Institute of Technology

Bachelor of Engineering in Building Services Engineering - Stage 2

(EBSEN_7_Y2)

Summer 2008

Electrotechnology

(Time: 3 hours)

Answer THREE question from Section A and TWO question from Section B Use separate answer book for each Section All question carry equal marks Examiner: Mr. S. Boljevic Dr. M. Smyth Mr. D. Leonard

Section A

- Q1. (a) A coil of insulated wire of resistance 8 Ω and inductance 0.03 H is connected to an a.c. supply at 240 V 50Hz. Draw the circuit and calculate:
 - (i) the current through the coil
 - (iii) 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 Ω and inductance 100 µH is connected in series with a 100 pF capacitor. The circuit is connected to a 10 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 Which Past Paper Is Related To Electrotechnology N3 26 March 2014

- 1. Understanding the eBook Which Past Paper Is Related To Electrotechnology N3 26 March 2014
 - The Rise of Digital Reading Which Past Paper Is Related To Electrotechnology N3 26 March 2014
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Which Past Paper Is Related To Electrotechnology N3 26 March 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 Which Past Paper Is Related To Electrotechnology N3 26 March 2014
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Which Past Paper Is Related To Electrotechnology N3 26 March 2014
 - Personalized Recommendations
 - Which Past Paper Is Related To Electrotechnology N3 26 March 2014 User Reviews and Ratings
 - Which Past Paper Is Related To Electrotechnology N3 26 March 2014 and Bestseller Lists

- 5. Accessing Which Past Paper Is Related To Electrotechnology N3 26 March 2014 Free and Paid eBooks
 - Which Past Paper Is Related To Electrotechnology N3 26 March 2014 Public Domain eBooks
 - Which Past Paper Is Related To Electrotechnology N3 26 March 2014 eBook Subscription Services
 - Which Past Paper Is Related To Electrotechnology N3 26 March 2014 Budget-Friendly Options
- 6. Navigating Which Past Paper Is Related To Electrotechnology N3 26 March 2014 eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Which Past Paper Is Related To Electrotechnology N3 26 March 2014 Compatibility with Devices
 - Which Past Paper Is Related To Electrotechnology N3 26 March 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Which Past Paper Is Related To Electrotechnology N3 26 March 2014
 - Highlighting and Note-Taking Which Past Paper Is Related To Electrotechnology N3 26 March 2014
 - Interactive Elements Which Past Paper Is Related To Electrotechnology N3 26 March 2014
- 8. Staying Engaged with Which Past Paper Is Related To Electrotechnology N3 26 March 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Which Past Paper Is Related To Electrotechnology N3 26 March 2014
- 9. Balancing eBooks and Physical Books Which Past Paper Is Related To Electrotechnology N3 26 March 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Which Past Paper Is Related To Electrotechnology N3 26 March 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Which Past Paper Is Related To Electrotechnology N3 26 March 2014
 - Setting Reading Goals Which Past Paper Is Related To Electrotechnology N3 26 March 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Which Past Paper Is Related To Electrotechnology N3 26 March 2014
 - Fact-Checking eBook Content of Which Past Paper Is Related To Electrotechnology N3 26 March 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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