

Cork Institute of Technology
Bachelor of Engineering in Building Services Engineering
(National Diploma in Engineering in Building Services Engineering)

(NFQ – Level 7)

Summer 2005

Electrotechnology – Paper 1

(Time: 3 Hours)

Instructions

Answer FIVE Questions.

All Questions carry equal marks.

Examiners: Mr. S. Beljevic
Dr. N. J. Hewitt
Mr. T. Dunne

- Q1. (a) Using a sketch outline the theory in relation to charge separation in the storm cloud.
(6 marks)
- (b) Explain what is meant by the term rolling sphere and why is it important when designing lightning protection system?
(8 marks)
- (c) Outline and explain the most important factors taken into consideration for the lightning protection?
(6 marks)
- Q2. Relative to the protective relay:
- (a) Name four general function of a relay.
(4 marks)
- (b) Name at least five incoming signal to a relay.
(4 marks)
- (c) Name four basic requirements that must be taken into account when designing the protection system, and briefly explain each of them.
(8 marks)
- (d) Name at least four principals that must be taken into account when designing the protective relays.
(4 marks)

November 2005 Electrotechnology Question Paper

L Reisser



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Table of Contents November 2005 Electrotechnology Question Paper

1. Understanding the eBook November 2005 Electrotechnology Question Paper
 - The Rise of Digital Reading November 2005 Electrotechnology Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2005 Electrotechnology Question 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 November 2005 Electrotechnology Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2005 Electrotechnology Question Paper
 - Personalized Recommendations
 - November 2005 Electrotechnology Question Paper User Reviews and Ratings
 - November 2005 Electrotechnology Question Paper and Bestseller Lists

5. Accessing November 2005 Electrotechnology Question Paper Free and Paid eBooks
 - November 2005 Electrotechnology Question Paper Public Domain eBooks
 - November 2005 Electrotechnology Question Paper eBook Subscription Services
 - November 2005 Electrotechnology Question Paper Budget-Friendly Options
6. Navigating November 2005 Electrotechnology Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - November 2005 Electrotechnology Question Paper Compatibility with Devices
 - November 2005 Electrotechnology Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2005 Electrotechnology Question Paper
 - Highlighting and Note-Taking November 2005 Electrotechnology Question Paper
 - Interactive Elements November 2005 Electrotechnology Question Paper
8. Staying Engaged with November 2005 Electrotechnology Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2005 Electrotechnology Question Paper
9. Balancing eBooks and Physical Books November 2005 Electrotechnology Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2005 Electrotechnology Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine November 2005 Electrotechnology Question Paper
 - Setting Reading Goals November 2005 Electrotechnology Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of November 2005 Electrotechnology Question Paper
 - Fact-Checking eBook Content of November 2005 Electrotechnology Question 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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