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 Examiners: Mr. S. Boljevic Dr. N. J. Hewitt. Answer FTVE Question Mir. T. Dannes All Question carry equal marks. Q1. (a) Using a sketch outline the theory in relation to charge separation in the storm cloud. (6 marks) (B5): Explain what is meant by the term rolling sphere and why is it important when designing lightning protection system? (Simorks). Outline and explain the most important factors taken into consideration for the ((c) lightning protection? (6 marks) Q2. Relative to the protective relay: Name four general function of a relay. (4 marks) (a) (363) Name at least five incoming signal to a relay. (4 marks) Name four basic requirements that must be taken into account when designing (c) the protection system, and briefly explain each of them. (8 marks) Name at least four principals that must be taken into account when designing (d)

(4 marks)

the protective relays.

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Institute of Electrical and Electronics Engineers

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Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), National Institute of Standards and Technology (U.S.). Information Resources and Services Division, 1994

Index to IEEE Publications Institute of Electrical and Electronics Engineers, 1980 Issues for 1973 cover the entire IEEE technical literature

Government Reports Announcements & Index , 1984-03

Electrotechnics N4 L. Ferreira, 19??

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Table of Contents Electrotechnology N4 August 2014 Question 5

- 1. Understanding the eBook Electrotechnology N4 August 2014 Question 5
 - The Rise of Digital Reading Electrotechnology N4 August 2014 Question 5
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Electrotechnology N4 August 2014 Question 5
 - 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 N4 August 2014 Question 5
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Electrotechnology N4 August 2014 Question 5
 - Personalized Recommendations
 - $\circ\,$ Electrotechnology N4 August 2014 Question 5 User Reviews and Ratings
 - Electrotechnology N4 August 2014 Question 5 and Bestseller Lists
- 5. Accessing Electrotechnology N4 August 2014 Question 5 Free and Paid eBooks
 - Electrotechnology N4 August 2014 Question 5 Public Domain eBooks
 - Electrotechnology N4 August 2014 Question 5 eBook Subscription Services
 - Electrotechnology N4 August 2014 Question 5 Budget-Friendly Options

- 6. Navigating Electrotechnology N4 August 2014 Question 5 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Electrotechnology N4 August 2014 Question 5 Compatibility with Devices
 - Electrotechnology N4 August 2014 Question 5 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrotechnology N4 August 2014 Question 5
 - Highlighting and Note-Taking Electrotechnology N4 August 2014 Question 5
 - Interactive Elements Electrotechnology N4 August 2014 Question 5
- 8. Staying Engaged with Electrotechnology N4 August 2014 Question 5
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrotechnology N4 August 2014 Question 5
- 9. Balancing eBooks and Physical Books Electrotechnology N4 August 2014 Question 5
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrotechnology N4 August 2014 Question 5
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electrotechnology N4 August 2014 Question 5
 - Setting Reading Goals Electrotechnology N4 August 2014 Question 5
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electrotechnology N4 August 2014 Question 5
 - Fact-Checking eBook Content of Electrotechnology N4 August 2014 Question 5
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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