

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)

Electrotechnology Question Papers

Michael Brown



Electrotechnology Question Papers:

The book delves into Electrotechnology Question Papers. Electrotechnology Question Papers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Electrotechnology Question Papers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Electrotechnology Question Papers
 - Chapter 2: Essential Elements of Electrotechnology Question Papers
 - Chapter 3: Electrotechnology Question Papers in Everyday Life
 - Chapter 4: Electrotechnology Question Papers in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Electrotechnology Question Papers. This chapter will explore what Electrotechnology Question Papers is, why Electrotechnology Question Papers is vital, and how to effectively learn about Electrotechnology Question Papers.
3. In chapter 2, this book will delve into the foundational concepts of Electrotechnology Question Papers. The second chapter will elucidate the essential principles that must be understood to grasp Electrotechnology Question Papers in its entirety.
4. In chapter 3, the author will examine the practical applications of Electrotechnology Question Papers in daily life. The third chapter will showcase real-world examples of how Electrotechnology Question Papers can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Electrotechnology Question Papers in specific contexts. This chapter will explore how Electrotechnology Question Papers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Electrotechnology Question Papers. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Electrotechnology Question Papers.

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