

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

Annelies Wilder-Smith



Electrotechnology Question Papers:

Adopting the Beat of Phrase: An Psychological Symphony within **Electrotechnology Question Papers**

In some sort of taken by monitors and the ceaseless chatter of fast conversation, the melodic splendor and mental symphony produced by the written word usually disappear into the background, eclipsed by the constant sound and disruptions that permeate our lives. Nevertheless, situated within the pages of **Electrotechnology Question Papers** an enchanting literary prize brimming with natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that captivating masterpiece conducts readers on an emotional trip, skillfully unraveling the hidden tunes and profound influence resonating within each carefully constructed phrase. Within the depths with this moving examination, we can explore the book is central harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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