

# 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)

# Question Paper For Electrotechnology 2014 July

**Terry C. Jones**



**Question Paper For Electrotechnology 2014 July:**

## Adopting the Track of Phrase: An Mental Symphony within **Question Paper For Electrotechnology 2014 July**

In some sort of used by displays and the ceaseless chatter of immediate communication, the melodic elegance and psychological symphony created by the published word often fade into the back ground, eclipsed by the persistent noise and disturbances that permeate our lives. But, situated within the pages of **Question Paper For Electrotechnology 2014 July** a marvelous literary prize brimming with fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this fascinating masterpiece conducts visitors on an emotional trip, well unraveling the hidden tunes and profound influence resonating within each cautiously constructed phrase. Within the depths of this touching evaluation, we will examine the book is central harmonies, analyze its enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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