

**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)

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**Michael Rajnik**



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