

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)

Past Exam Papers For Electrotechnology

Julia Schneider



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Electro-technology, 1971 *Electro-technology* Stanley A. Dennis, Leon Irving Thomas, 1963 Marine Control Practice D.A. Taylor, 2013-10-22 Marine Engineering Series Marine Control Practice deals with the instrumentation and its associated control systems that are found onboard ships The book covers topics such as the measuring instruments and control signals for different parameters system analysis process and kinetic control systems and commercially available equipment Also covered in the book are correcting units such as actuators and valves the control systems for boilers turbines auxiliary equipment and control involving computers The text is recommended for those who need to complete the Certificates of Competency for Marine Engineers including Extra First Class The book will also be beneficial to offshore engineers *Sessional Papers* Great Britain. Parliament. House of Commons, 1904 *Electro Technology Newsletter* Stanley A. Dennis, Leon Irving Thomas, 1940 **Developments in Qualifications and Certification Affecting Merchant Navy Personnel** Institute of Marine Engineers, 1976 **Marine Engineers Review**, 1975 **The Chartered Mechanical Engineer**, 1965 *Statutory Rules Made Under Commonwealth Acts During the Year...* Australia, 1964 *Cd*, 1905 **Annual General Report of the Department** Ireland. Department of Agriculture and Technical Instruction, 1908 **Worked Examples in Electrical Engineering** William Thomas Pratt, 1954 Parliamentary Papers Great Britain. Parliament. House of Commons, 1914 *Catalogues and Indexes of British* Great Britain. Her Majesty's Stationery Office, 1974 **Power Factor Problems in Electricity Supply** George Wilfred Stubbings, 1940 **High Speed Diesel Or Compression Ignition Oil Engines** Arthur Hugh Goldingham, J. Bibby, 1942 *Shipbuilding and Shipping Record*, 1952-04 Includes special issues *Shipbuilding & Shipping Record*, 1949 **Nigerian Shipping Laws** Nigeria, Louis Nnamdi Mbanefo, 1983 *Calendar* University of Manchester, 1922

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