

Cork Institute of Technology
Bachelor of Engineering in Building Services Engineering – Stage 2
(EBSEN_7_Y2)
Summer 2008
Electrotechnology
(Time: 3 hours)

Answer THREE questions from Section A
and TWO questions from Section B.
Use separate answer books for each Section.
All questions carry equal marks.

Examiner: Mr. S. Bojovic
Dr. M. Smyth
Mr. D. Leonard

Section A

- Q1. (a) A coil of insulated wire of resistance $8\ \Omega$ and inductance $0.03\ \text{H}$ is connected to an a.c. supply at $240\ \text{V}$ 50Hz . Draw the circuit and calculate:
- (i) the current through the coil
 - (ii) power factor
 - (iii) the power consumed by the coil (6 marks)
- (b) Calculate the value of capacitance which when connected in series with the above coil, causes no change in the values of the current and power taken from the supply. (6 marks)
- (c) A coil of resistance $100\ \Omega$ and inductance $100\ \mu\text{H}$ is connected in series with a $100\ \text{pF}$ capacitor. The circuit is connected to a $10\ \text{V}$ variable frequency supply. Draw the circuit and calculate:
- (i) the resonant frequency
 - (ii) current at resonance
 - (iii) voltage across L and C at resonance
 - (iv) Q factor of the circuit (8 marks)

Electrotechnology Nquestion Paper

JA Banks



Electrotechnology Nquestion Paper:

Electrotechnology Practice Jeffery Hampson, Steven Hanssen, 2019-06-07 Electrotechnology Practice is a practical text that accompanies Hampson Hanssen's theoretical Electrical Trade Principles. It covers essential units of competencies in the two key qualifications in the UEE Electrotechnology Training Package Certificate II in Electrotechnology Career Start Certificate III in Electrotechnology Electrician. Aligned with the latest Australian and New Zealand standards, the text references the Wiring Rules AS/NZS 3000:2018 and follows the uniform structure and system of delivery as recommended by the nationally accredited vocational education and training authorities. More than 1000 illustrations convey to the learner various concepts and real world aspects of electrical practices; a range of fully worked examples and review questions support student learning while assessment style worksheets support the volume of assessment. Electrotechnology Practice has strong coverage of the electives for Cert II and Cert III, preparing students to eligibly sit for the Capstone Assessment or the Licenced Electrician's Assessment LEA as a mandatory requirement to earn an Electrician's Licence Premium. Online teaching and learning tools are available on the MindTap platform.

Electro Technology Newsletter Stanley A. Dennis, Leon Irving Thomas, 1942 Electro-technology Stanley A. Dennis, Leon Irving Thomas, 1963 **Bhārata Kā Rājapatra**, 1885 **Information technology and electrotechnology for the Mediterranean countries** Costas Stasopoulos, 1998 **Technology Forecasting and Assessment of Electrotechnology** Institute of Electrical and Electronics Engineers. Region 2, 1971 *Shipbuilding and Shipping Record*, 1952-04 Includes special issues *Appendix to the Journals of the House of Representatives of New Zealand* New Zealand. Parliament. House of Representatives, 1904

Shipbuilding & Shipping Record, 1941 *Electro-technology*, 1978 **The Gazette of India** India, 1963-04

Statutory Regulations New Zealand, 1966 **Nigerian Shipping Laws** Nigeria, Louis Nnamdi Mbanefo, 1983

Annual Volume of the Laws of the Federal Republic of Nigeria Nigeria, 1963 Marine Engineer and Motorship Builder, 1938 **Parliamentary Debates** Malaya. Parliament. House of Representatives, 1967 **Encyclopaedia of Statutory Rules Under Central Acts** India, Bidhubhusan Malik, 1963 Transactions Institute of Marine Engineers, 1938

Electro-technology Newsletter, 1973 **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.

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