# Cork Institute of Technology

Higher Certificate in Engineering in Building Services Engineering - Award

(NFQ — Level 6)

#### Autumn 2006

## Electrotechnology — Electrical Drawing

(Time: 3 Hours)

Answer QUESTION 1 and TWO other questions.
Write your answers for Question 1 on an answer book.
Drawing are to be completed using AutoCAD. Use a separate file for each question and ensure your name appears on each file. Save the files in your own folder on the hard disk. Save frequently!

Examiners: Dr. N. J. Hewitt Mr. D. Leonard Mr. D. A. Collins

- Q1. (a) Sketch a circuit diagram showing three windings (inductors) of a load connected in star to a three phase supply.
  [6]
  - (b) Extend the diagram for (a) to show a second identical load connected in parallel with the first load. [6]
  - (c) Sketch a line diagram showing a current transformer supplying the current signal to a kvarh meter.
    [6]
  - (d) On a circuit diagram, a piece of text beside a wiring line reads "-K7:5".
     What does this mean?
     On the same diagram, another piece of text reads "2 1500 V".
     What does this mean?
     [6]
  - (e) Sketch the IEC graphical symbol used in circuit diagrams for these items...
    - (i) A solenoid valve
- (iii) a time switch
- (iii) a current transformer
- (iv) a three pole disconnector

(v) a plug and socket

(vi) a hooter

[6]

- Q2. Figure 1 is a sketched plan of a school laboratory.
  - (a) Draw the plan of the laboratory to a scale 1:100 and prepare it for printing on an ISO A2 sheet. Use a separate layer called "Laboratory". [10]
  - (b) Using IEC graphical symbols and item designations, map out the positions of six, three phase extract fans and their associated local switch disconnectors located at A, B, C, D, E and F. Map out the position of the control panel located at G. [10]

# **Tare Electrotechnology Electrician Exam**

Gilson M. Bastos, Tom
Breckenridge, Mike Lamb, Tara-Lee
MacArthur, Simon Ryder

#### Tare Electrotechnology Electrician Exam:

Electrical Engineering Laboratory Practice Oskar Edwin Edison, Ferris Waldo Norris, 1928 DMRC Exam for Ir. Engineer (Electrical) Guide + Workbook (10 Practice Sets) Paper I & II 2nd edition Disha Experts, 2017-09-01 The THOROUGHLY REVISED UPDATED 2nd edition of the book DMRC Exam Paper 1 2 for Jr Engineer Electrical Guide Workbook 10 Practice Sets 2nd edition has been specially designed to help students in the latest DMRC exam being conducted by DMRC The book contains Quick Concept Review of the General Ability Test in 2 parts Aptitude and Electrical Engineering The Quick Concept Review is followed by a short exercise with solutions The book also provides 2 Solved past papers of 2012 2013 to guide you about the pattern and the level of guestions asked The book provides 10 Practice Sets Paper 1 and 2 as per the LATEST pattern of DMRC Electrical Engineering exam The solutions of the 10 Practice Sets are provided immediately at the end of each Set The questions have been carefully selected so as to give you a real feel of the exam Each Practice Set is classified into 2 papers Paper I is an Objective Test containing General Ability section and Electrical Engineering section The General Ability section has 60 questions on General Awareness Logical Ability and Quantitative Aptitude The Electrical Engineering section has 60 questions on the knowledge of the Electrical Engineering discipline trade The Paper II consists of an objective test of English language of 60 questions Two fully solved past papers of 2012 2013 have been provided It is our confidence that if you attempt each of the tests with sincerity your score must improve at least by 10 15% The book also provides Response Sheet for each objective test Post each test you must do a Post Test Analysis with the help of the Test Analysis Feedback Sheet which has been provided for each Set Theoretical and **Practical Electrical Engineering** Louis Denton Bliss,1941 Experimental Electrical Engineering and Manual for Electrical Testing for Engineers and for Students in Engineering Laboratories Vladimir Karapetoff, 1922 Electrical **Engineering** Chester Dawes, 1955 Electro-technology Stanley A. Dennis, Leon Irving Thomas, 1955 **Engineering** Mechanics Devoted to Mechanical Civil, Mining and Electrical Engineering ,1884 Principles of Electrical Engineering Grover Cleveland Blalock, 1950 Electrical Engineering Guide for GATE/ PSUs Disha Experts, 2017-08-01 Electrical Engineering for GATE PSUs exam contains exhaustive theory past year questions and practice problems The book has been written as per the latest format as issued for latest GATE exam The book covers Numerical Answer Type Questions which have been added in the GATE format To the point but exhaustive theory covering each and every topic in the latest **Emerging Technologies & Applications in Electrical Engineering** GATE syllabus Electrical World ,1886 Anamika Yaday, K Chandrasekaran, V Hari Priya, D Suresh, 2024-07-08 The First International Conference on Emerging Technologies and Applications in Electrical Engineering ETAEE 2023 was hosted and organized by the Department of Electrical Engineering National Institute of Technology Raipur held on 21st to 22nd December 2023 with CRC Press Taylor and Francis as publication partner ETAEE 2023 aims to emerge as a platform for in depth discussions knowledge sharing and collaborative efforts The main theme of the conference was Sustainable Energy Future With professionals from academia industry and reputable research institutions coming together the conference underlined the importance of staying at the forefront of technical breakthroughs to ensure a sustainable energy future The presentations were delivered by participants on various topics such as Renewable Energy Smart Grid High Voltage Technologies Power Electronics and Drives Electric Transportation Systems Instrumentation Control and IoT Applications in Electrical Engineering Esteemed academicians chaired these sessions fostering in depth discussions and knowledge exchange

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**Transformer and Reactor Procurement** Gilson M. Bastos, Tom Breckenridge, Mike Lamb, Tara-Lee MacArthur, Simon Ryder, 2022-09-19 This Green Book provides those involved in transformer procurement with comprehensive guidance on industry best practice to avoid wrong decisions Transformers are one of the expensive components in the power system and also contribute a large proportion of the losses Transformers also have long lives more than 40 years in many cases Making the wrong decisions during the procurement process can have serious and long lasting consequences **Electrical Engineer**, 1895

The Electrical Journal, 1882

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