

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 kWh 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
 - (ii) 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]

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Table of Contents Question Paper 2july Exams Electrotechnology

1. Understanding the eBook Question Paper 2july Exams Electrotechnology
 - The Rise of Digital Reading Question Paper 2july Exams Electrotechnology
 - Advantages of eBooks Over Traditional Books
2. Identifying Question Paper 2july Exams Electrotechnology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Question Paper 2july Exams Electrotechnology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Question Paper 2july Exams Electrotechnology
 - Personalized Recommendations
 - Question Paper 2july Exams Electrotechnology User Reviews and Ratings
 - Question Paper 2july Exams Electrotechnology and Bestseller Lists
5. Accessing Question Paper 2july Exams Electrotechnology Free and Paid eBooks

- Question Paper 2july Exams Electrotechnology Public Domain eBooks
 - Question Paper 2july Exams Electrotechnology eBook Subscription Services
 - Question Paper 2july Exams Electrotechnology Budget-Friendly Options
6. Navigating Question Paper 2july Exams Electrotechnology eBook Formats
- ePub, PDF, MOBI, and More
 - Question Paper 2july Exams Electrotechnology Compatibility with Devices
 - Question Paper 2july Exams Electrotechnology Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Question Paper 2july Exams Electrotechnology
 - Highlighting and Note-Taking Question Paper 2july Exams Electrotechnology
 - Interactive Elements Question Paper 2july Exams Electrotechnology
8. Staying Engaged with Question Paper 2july Exams Electrotechnology
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Question Paper 2july Exams Electrotechnology
9. Balancing eBooks and Physical Books Question Paper 2july Exams Electrotechnology
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Question Paper 2july Exams Electrotechnology
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Question Paper 2july Exams Electrotechnology
- Setting Reading Goals Question Paper 2july Exams Electrotechnology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Question Paper 2july Exams Electrotechnology
- Fact-Checking eBook Content of Question Paper 2july Exams Electrotechnology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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