# Cork Institute of Technology

#### Bachelor of Engineering in Building Services Engineering - Stage 2

(EBSEN\_7\_Y2)

# Summer 2008

# Electrotechnology – Electrical Drawing

(Time: 3 Hours)

Answer QUESTION 1 and TWO other questions.

Write your answers for Question I on an answer book.
Drawings 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. M. Smyth Mr. D. Leonard Mr. E. Devis

- Q1. From your knowledge of the IEC standards on the preparation of documents used in electrotechnology:
  - (a) Explain the general method of building the graphical symbol for a switchgear device.
  - (b) Explain where and why the following types of electrical diagrams are used. [6]
    - Circuit Diagrams
    - (ii) Topological Diagrams
    - (iii) Line Diagrams

Study the circuit diagram Figure 1 and answer the following questions:

- (c) Identify the device -K1 and explain how it operates in this circuit. [6]
- (d) State the function of the device -T1. [6]
- (e) State the conditions necessary for the lamp -H1 to light. [6]

[6]

# Nated Electrical Past Question Papers For Electrotechnology

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