

# Cork Institute of Technology

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

(EBSN\_7\_Y2)

Autumn 2008

### Electrotechnology

(Time: 3 Hours)

Answer THREE question from Section A  
and TWO question from Section B  
Use separate answer book for each Section  
All question carry equal marks

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

#### Section A

- Q1. A series circuit consists of resistance  $10\ \Omega$ , inductance  $0.1\text{H}$  and capacitor of capacitance of  $150\mu\text{F}$  is connected across a  $200\text{ V}$ ,  $50\text{ Hz}$  supply. (20 Marks)  
Draw the circuit and calculate:
- (a) Importance of the circuit.
  - (b) The current through the circuit.
  - (c) Power factor.
  - (d) Voltage across the coil.
  - (e) Voltage across the capacitor.
  - (f) Draw the phasor diagram showing voltage across resistor and capacitor.
- Q2. A coil of resistance  $100\ \Omega$  and inductance  $0.15\text{ H}$  is connected to a  $250\text{ V}$ ,  $50\text{ Hz}$  supply. (20 Marks)  
Calculate:
- (a) Capacitance of the capacitor to be connected in parallel with the coil so that overall p.f is unity.
  - (b) Total active power consumed when capacitor is connected.
  - (c) Explain what is meant by power factor. Support your explanation with practice example.

# Intec College Exam Papers Of Electrotechnology N3

**Victor M. Corman**



## **Intec College Exam Papers Of Electrotechnology N3:**

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