

Cork Institute of Technology

Bachelor of Engineering in Building Services Engineering – Stage 2

(EBSEN_7_Y2)

Autumn 2008

Electrotechnology

(Time: 3 Hours)

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

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

Section A

Q1. A series circuit consists of resistance $10\ \Omega$, inductance 0.1H and capacitor of capacitance of $150\mu\text{F}$ is connected across a 200 V , 50 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 H is connected to a 250 V , 50 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 practical example.

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