Cork Institute of Technology

Bachelor of Engineering in Building Services Engineering - Stage 2

(EBSEN_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 Ω, inductance 0.1H and capacitor of capacitance of 150µF is connected across a 200 V, 50 H₂ 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 Ω and inductance 0.15 H is connected to a 250 V, 50 H_Z 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 often capacitor is connected.
 - (c) Explain what is meant by power factor. Support your explanation with practicle example.

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Arturo Cuomo

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