

Cork Institute of Technology
Bachelor of Engineering in Building Services Engineering – Stage 2
(EBSEN_7_Y2)
Summer 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

Examiners: Mr. N. Bolejovic
Dr. M. Sareyha
Mr. D. Leonard

Section A

Q1. (a) A coil of insulated wire of resistance 8Ω and inductance 0.03 H is connected to an a.c. supply at $240 \text{ V } 50\text{Hz}$. Draw the circuit and calculate:
(i) the current through the coil
(ii) power factor
(iii) the power consumed by the coil (6 marks)

(b) Calculate the value of capacitance which when connected in series with the above coil, causes no change in the values of the current and power taken from the supply. (6 marks)

(c) A coil of resistance 100Ω and inductance $100 \mu\text{H}$ is connected in series with a $100 \mu\text{F}$ capacitor. The circuit is connected to a 10 V variable frequency supply. Draw the circuit and calculate:
(i) the resonant frequency
(ii) current at resonance
(iii) voltage across L and C at resonance
(iv) Q factor of the circuit (8 marks)

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