

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 books for each Section.
All questions carry equal marks.

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

Section A

- Q1. (a) A coil of insulated wire of resistance $8\ \Omega$ and inductance $0.03\ \text{H}$ is connected to an a.c. supply at $240\ \text{V}$ 50Hz . 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 $100\ \Omega$ and inductance $100\ \mu\text{H}$ is connected in series with a $100\ \text{pF}$ capacitor. The circuit is connected to a $10\ \text{V}$ 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)

8 Electrotechnology N3 Memo

Tao Wei



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In a global inundated with monitors and the cacophony of instant transmission, the profound power and emotional resonance of verbal beauty frequently fade in to obscurity, eclipsed by the constant assault of noise and distractions. However, set within the lyrical pages of **8 Electrotechnology N3 Memo**, a captivating work of literary elegance that impulses with raw thoughts, lies an wonderful journey waiting to be embarked upon. Written by a virtuoso wordsmith, this interesting opus courses visitors on a mental odyssey, softly revealing the latent possible and profound affect embedded within the delicate internet of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is central themes, dissect its fascinating publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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