

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)

July 2014 Electrotechnology Memo

Yijin Wang



July 2014 Electrotechnology Memo:

Whispering the Techniques of Language: An Emotional Journey through **July 2014 Electrotechnology Memo**

In a digitally-driven earth wherever screens reign supreme and instant conversation drowns out the subtleties of language, the profound techniques and mental subtleties hidden within phrases frequently move unheard. However, situated within the pages of **July 2014 Electrotechnology Memo** a captivating fictional treasure pulsing with raw thoughts, lies an extraordinary quest waiting to be undertaken. Written by a skilled wordsmith, that enchanting opus encourages viewers on an introspective journey, softly unraveling the veiled truths and profound affect resonating within ab muscles material of each and every word. Within the emotional depths with this touching review, we can embark upon a sincere exploration of the book is key themes, dissect their fascinating writing type, and yield to the strong resonance it evokes serious within the recesses of readers hearts.

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