

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)

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Engineering Rules JoAnne Yates, Craig N. Murphy, 2019-06-11 The first global history of voluntary consensus standard setting Finalist Hagley Prize in Business History The Hagley Museum and Library The Business History Conference Private voluntary standards shape almost everything we use from screw threads to shipping containers to e readers They have been critical to every major change in the world economy for more than a century including the rise of global manufacturing and the ubiquity of the internet In *Engineering Rules* JoAnne Yates and Craig N Murphy trace the standard setting system's evolution through time revealing a process with an astonishingly pervasive if rarely noticed impact on all of our lives This type of standard setting was established in the 1880s when engineers aimed to prove their status as professionals by creating useful standards that would be widely adopted by manufacturers while satisfying corporate customers Yates and Murphy explain how these engineers' processes provided a timely way to set desirable standards that would have taken much longer to emerge from the market and that governments were rarely willing to set By the 1920s the standardizers began to think of themselves as critical to global prosperity and world peace After World War II standardizers transcended Cold War divisions to create standards that made the global economy possible Finally Yates and Murphy reveal how since 1990 a new generation of standardizers has focused on supporting the internet and web while applying the same standard setting process to regulate the potential social and environmental harms of the increasingly global economy Drawing on archival materials from three continents Yates and Murphy describe the positive ideals that sparked the standardization movement the ways its leaders tried to realize those ideals and the challenges the movement faces today *Engineering Rules* is a riveting global history of the people, processes and organizations that created and maintain this nearly invisible infrastructure of today's economy which is just as important as the state or the global market

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