

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)

Electrotechnology Nthird Trimester Question Paper Y

J Elliott



Electrotechnology Nthird Trimester Question Paper Y:

The book delves into Electrotechnology Nthird Trimester Question Paper Y. Electrotechnology Nthird Trimester Question Paper Y is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Electrotechnology Nthird Trimester Question Paper Y, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Electrotechnology Nthird Trimester Question Paper Y
 - Chapter 2: Essential Elements of Electrotechnology Nthird Trimester Question Paper Y
 - Chapter 3: Electrotechnology Nthird Trimester Question Paper Y in Everyday Life
 - Chapter 4: Electrotechnology Nthird Trimester Question Paper Y in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Electrotechnology Nthird Trimester Question Paper Y. This chapter will explore what Electrotechnology Nthird Trimester Question Paper Y is, why Electrotechnology Nthird Trimester Question Paper Y is vital, and how to effectively learn about Electrotechnology Nthird Trimester Question Paper Y.
 3. In chapter 2, this book will delve into the foundational concepts of Electrotechnology Nthird Trimester Question Paper Y. This chapter will elucidate the essential principles that must be understood to grasp Electrotechnology Nthird Trimester Question Paper Y in its entirety.
 4. In chapter 3, the author will examine the practical applications of Electrotechnology Nthird Trimester Question Paper Y in daily life. The third chapter will showcase real-world examples of how Electrotechnology Nthird Trimester Question Paper Y can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Electrotechnology Nthird Trimester Question Paper Y in specific contexts. This chapter will explore how Electrotechnology Nthird Trimester Question Paper Y is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Electrotechnology Nthird Trimester Question Paper Y. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Electrotechnology Nthird Trimester Question Paper Y.

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