

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

EW Minium



8 Electrotechnology N3 Memo:

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Government Reports Announcements & Index ,1992-12

This book delves into 8 Electrotechnology N3 Memo. 8 Electrotechnology N3 Memo is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into 8 Electrotechnology N3 Memo, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to 8 Electrotechnology N3 Memo
- Chapter 2: Essential Elements of 8 Electrotechnology N3 Memo
- Chapter 3: 8 Electrotechnology N3 Memo in Everyday Life
- Chapter 4: 8 Electrotechnology N3 Memo in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of 8 Electrotechnology N3 Memo. This chapter will explore what 8 Electrotechnology N3 Memo is, why 8 Electrotechnology N3 Memo is vital, and how to effectively learn about 8 Electrotechnology N3 Memo.
3. In chapter 2, the author will delve into the foundational concepts of 8 Electrotechnology N3 Memo. The second chapter will elucidate the essential principles that need to be understood to grasp 8 Electrotechnology N3 Memo in its entirety.
4. In chapter 3, the author will examine the practical applications of 8 Electrotechnology N3 Memo in daily life. The third chapter will showcase real-world examples of how 8 Electrotechnology N3 Memo can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of 8 Electrotechnology N3 Memo in specific contexts. The fourth chapter will explore how 8 Electrotechnology N3 Memo is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about 8 Electrotechnology N3 Memo. This chapter will summarize the key points that have been discussed throughout the book.

The 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 8 Electrotechnology N3 Memo.

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