

# Cork Institute of Technology

## Higher Certificate in Engineering in Electrical Engineering - Stage 1

Summer 2006

### Industrial Electronics

(Time: 3 Hours)

#### INSTRUCTIONS:

Answer Five Questions.

All formula and calculations must be shown.

Examiners:

Mr. R. Daly

Mr. M. Hennessy

Prof. E. McQuade

- Q1. (a) Using the reference points in Fig. 1, explain (ignoring the capacitor) the operation of the full-wave bridge rectifier circuit and indicate the polarity at the output terminals C and D. 6 marks

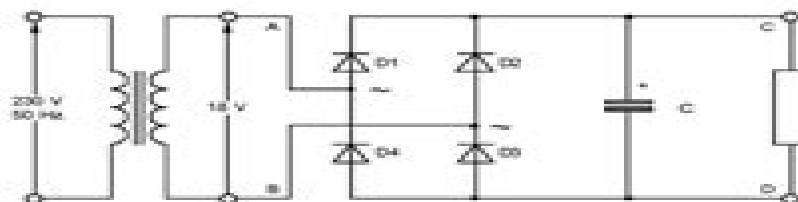


Fig.1

- (b) Show for the circuit, fully detailed waveforms with voltage and time values, for:
- (i) the voltage at the terminals AB;
  - (ii) the voltage at the terminals CD without the capacitor.
- 14 marks
- Q2. (a) Construct a 5-column binary table with appropriate headings to represent the decimal numbers from 0 to 15. Write the decimal digits in the left hand column. 5 Marks
- (b) Draw the circuit logic symbols and truth tables for, an inverter, a 2-input AND gate and a 2-input XOR gate. 7 Marks
- (c) Show how the gates in (b) can be connected to compare two data bits A and B for:  $A < B$ ,  $A = B$  and  $A > B$ . An output status of 1 is required when the comparison is true. 5 Marks
- Q3. (a) Draw a circuit diagram for an LED connected to a 24V d.c. supply and calculate the resistance required to limit the current in the LED to 50mA. Assume the LED operating voltage to be 3.5V. 4 marks

# Industrial Electronics Past Question Papers

**Albert A Gayle**



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### **Table of Contents Industrial Electronics Past Question Papers**

1. Understanding the eBook Industrial Electronics Past Question Papers
  - The Rise of Digital Reading Industrial Electronics Past Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Industrial Electronics Past Question Papers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Industrial Electronics Past Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Industrial Electronics Past Question Papers
  - Personalized Recommendations
  - Industrial Electronics Past Question Papers User Reviews and Ratings
  - Industrial Electronics Past Question Papers and Bestseller Lists

5. Accessing Industrial Electronics Past Question Papers Free and Paid eBooks
  - Industrial Electronics Past Question Papers Public Domain eBooks
  - Industrial Electronics Past Question Papers eBook Subscription Services
  - Industrial Electronics Past Question Papers Budget-Friendly Options
6. Navigating Industrial Electronics Past Question Papers eBook Formats
  - ePub, PDF, MOBI, and More
  - Industrial Electronics Past Question Papers Compatibility with Devices
  - Industrial Electronics Past Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Industrial Electronics Past Question Papers
  - Highlighting and Note-Taking Industrial Electronics Past Question Papers
  - Interactive Elements Industrial Electronics Past Question Papers
8. Staying Engaged with Industrial Electronics Past Question Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Industrial Electronics Past Question Papers
9. Balancing eBooks and Physical Books Industrial Electronics Past Question Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Industrial Electronics Past Question Papers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Industrial Electronics Past Question Papers
  - Setting Reading Goals Industrial Electronics Past Question Papers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Industrial Electronics Past Question Papers
  - Fact-Checking eBook Content of Industrial Electronics Past Question Papers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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