

Cork Institute of Technology
Bachelor of Engineering in Electrical Engineering - Stage 1
(NFQ – Level 7)
Autumn 2007

Industrial Electronics
(Time: 3 Hours)

INSTRUCTIONS:

Answer Five Questions.

All formula and calculations must be shown.

Examiners:

Mr. R. Daly
 Prof. E. McQuade
 Mr. M. Hennessy

- Q1 (a) What is the purpose of rectifiers in electronic equipment?

2 marks

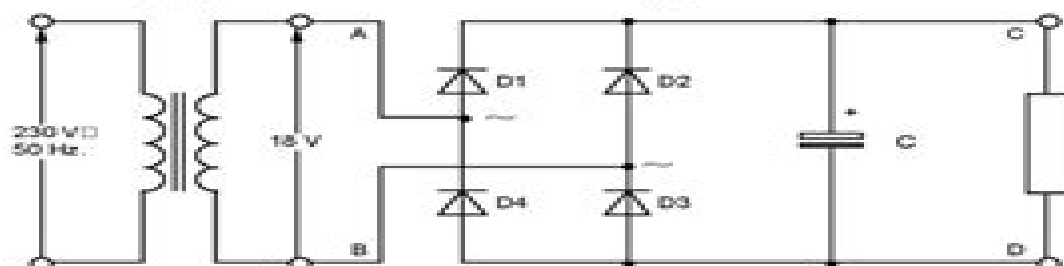


Fig.1

- (b) 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. 8 marks

- (c) Show the waveforms with important values for:

- (i) The voltage at AB;
 (ii) The voltage at CD without the capacitor connected;
 (iii) The smoothed output at CD.

3 marks

3 marks

4 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. 6 marks

- (b) Draw the circuit logic symbols and truth tables for, a 2-input AND gate, and a 2-input XOR gate. 6 marks

- (c) Show how the gates in (b) can be connected to construct a half-adder. Include in your answer the truth table for the half-adder. 8 marks

Industrial Electronics Exam Memorandum

R Barnett



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Table of Contents Industrial Electronics Exam Memorandum

1. Understanding the eBook Industrial Electronics Exam Memorandum
 - The Rise of Digital Reading Industrial Electronics Exam Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Industrial Electronics Exam Memorandum
 - 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 Exam Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Industrial Electronics Exam Memorandum
 - Personalized Recommendations
 - Industrial Electronics Exam Memorandum User Reviews and Ratings
 - Industrial Electronics Exam Memorandum and Bestseller Lists
5. Accessing Industrial Electronics Exam Memorandum Free and Paid eBooks

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