

# Digital Electronics

## Answer Sheet 4

1  $A + B = \overline{\overline{A} \cdot \overline{B}}$

2  $\overline{\overline{\overline{A \cdot B} \cdot \overline{\overline{C \cdot D}}}}$

- 3 a)  $= \overline{\overline{(A+B)+C}} = \overline{(A+B+C)}$   
 b)  $= A \cdot B + A \cdot C + C + \overline{A} \cdot B \cdot \overline{C} = A \cdot B + C + \overline{A} \cdot B = B \cdot (A + \overline{A}) + C = B + C$   
 c)  $= A \cdot \overline{A} \cdot B + \overline{B} \cdot \overline{A} \cdot B = 0$   
 d)  $= A \cdot (\overline{B} \cdot C + \overline{C}) + B \cdot C = A \cdot (\overline{B} + \overline{C}) + B \cdot C = A \cdot (\overline{B \cdot C}) + B \cdot C = A + B \cdot C$

4.

$$\begin{aligned} \overline{A}C + A\overline{C} + BC &= \overline{C}(A + \overline{A}) + BC \\ &= \overline{C} + BC \\ &= \overline{C} \cdot \overline{B} + \overline{C}B + BC \\ &= \overline{C} \cdot \overline{B} + \overline{C}B + \overline{C}B + BC \\ &= \overline{C}(\overline{B} + B) + B(\overline{C} + C) \\ &= \overline{C} + B \end{aligned}$$

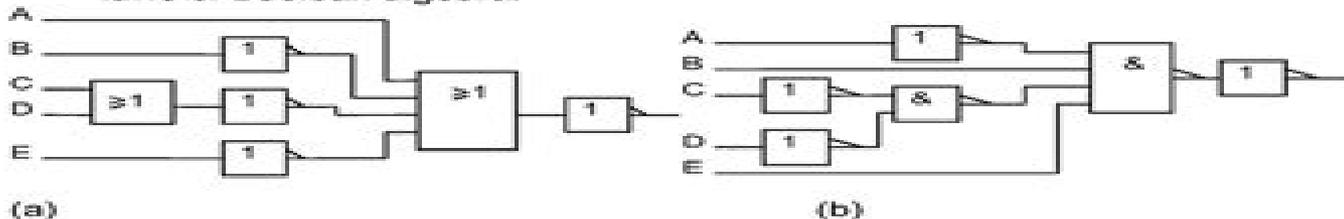
of you might be able to see that  $\overline{C} + BC = \overline{C} + B$  directly or from a truth table.

5. To show this, we need to simplify the logic, using Boolean Algebra, so as to write the expression in the form XYZ where X, Y and Z are each one of the variables or its complement.

$$\begin{aligned} \overline{A(\overline{B} + A\overline{C})} &= A \cdot B \cdot \overline{A} \cdot \overline{C} \\ &= AB(\overline{A} + C) \\ &= \overline{A}A + ABC \\ &= ABC \end{aligned}$$

Always false for any A.  $\swarrow$

6. The first thing to notice is that the two AND gates can be merged to form a four input AND gate. The solutions are then obtained by shuffling INVERTORS so that pairs of INVERTORS cancel and by applying (in a schematical sense) the laws of Boolean algebra.



# Digital Electronics Exam Questions With Answers

**Jessica J Manson**



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## **Table of Contents Digital Electronics Exam Questions With Answers**

1. Understanding the eBook Digital Electronics Exam Questions With Answers
  - The Rise of Digital Reading Digital Electronics Exam Questions With Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Digital Electronics Exam Questions With Answers
  - 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 Digital Electronics Exam Questions With Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Digital Electronics Exam Questions With Answers
  - Personalized Recommendations
  - Digital Electronics Exam Questions With Answers User Reviews and Ratings
  - Digital Electronics Exam Questions With Answers and Bestseller Lists
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  - Digital Electronics Exam Questions With Answers Budget-Friendly Options
6. Navigating Digital Electronics Exam Questions With Answers eBook Formats

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