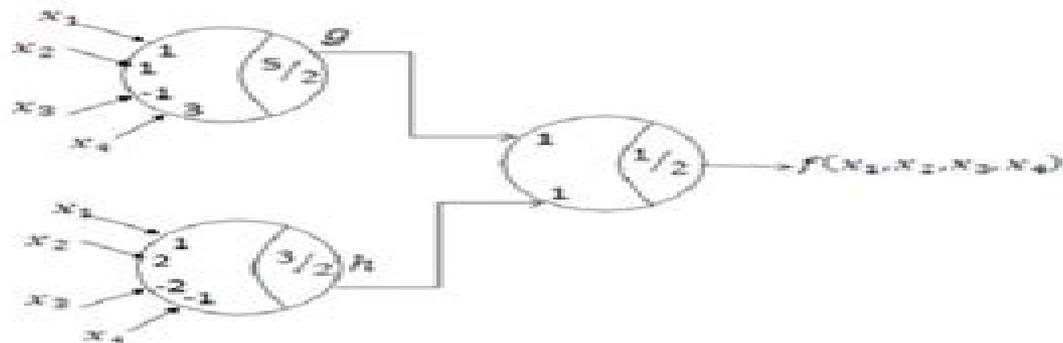


# DIGITAL SWITCHING AND LOGIC DESIGN

## QUESTION BANK

### CHAPTER1: Threshold Logic

- Q1. Is it possible to design EX-OR gate with a single threshold element?  
Justify your answer.
- Q2. Let  $f(x_1, x_2, x_3) = \sum(0,1,3)$ . Realize it using a threshold element.
- Q3. What are the various capabilities of threshold logic?
- Q5. Determine whether the function  $f(x_1, x_2, x_3, x_4) = \sum(0,1,3,4,5,6,7,12,13)$  is a threshold function, and, if it is, find a weight-threshold vector.
- Q6. By examining the linear inequalities, determine which of the following functions is a threshold function, and for each one that is, find the corresponding weight-threshold vector.
- $f_1(x_1, x_2, x_3) = \sum(1,2,3,7)$
  - $f_1(x_1, x_2, x_3) = \sum(0,2,4,5,6)$
  - $f_1(x_1, x_2, x_3) = \sum(0,3,5,6)$
- Q7. Determine the function  $f(x_1, x_2, x_3, x_4)$  realized by the network as shown in fig below.



# Digital Logic Design Question Bank Pdfslibforme

**Kathleen Armour**



**Digital Logic Design Question Bank Pdfslibforme:**

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### **Table of Contents Digital Logic Design Question Bank Pdfslibforme**

1. Understanding the eBook Digital Logic Design Question Bank Pdfslibforme
  - The Rise of Digital Reading Digital Logic Design Question Bank Pdfslibforme
  - Advantages of eBooks Over Traditional Books
2. Identifying Digital Logic Design Question Bank Pdfslibforme
  - 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 a Digital Logic Design Question Bank Pdfslibforme
  - User-Friendly Interface
4. Exploring eBook Recommendations from Digital Logic Design Question Bank Pdfslibforme
  - Personalized Recommendations
  - Digital Logic Design Question Bank Pdfslibforme User Reviews and Ratings
  - Digital Logic Design Question Bank Pdfslibforme and Bestseller Lists

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