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Question Paper Code : 40989

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2024

Fifth Semester

Electronics and Communication Engineering

EC 3552 – VLSI AND CHIP DESIGN

(Common to: Electronics and Telecommunication Engineering)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. How NMOS and PMOS act as a switch?
2. What is the body effect of MOS transistor?
3. Draw the stick diagram for two input NOR gate.
4. What is the significance of propagation delay?
5. Differentiate latches and flipflops.
6. What are the basic timing classifications of digital systems?
7. List the interconnect parameters in chip design.
8. Write the logic equation for 4-bit comparators.
9. Sketch the ASIC design flow?
10. Differentiate embedded cores and SOC's.

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**Axel Hutt, Wilhelm Stannat, Roland
Potthast**



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Table of Contents Anna University Vlsi Question Paper

1. Understanding the eBook Anna University Vlsi Question Paper
 - The Rise of Digital Reading Anna University Vlsi Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Anna University Vlsi Question Paper
 - 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 Anna University Vlsi Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anna University Vlsi Question Paper
 - Personalized Recommendations
 - Anna University Vlsi Question Paper User Reviews and Ratings
 - Anna University Vlsi Question Paper and Bestseller Lists
5. Accessing Anna University Vlsi Question Paper Free and Paid eBooks
 - Anna University Vlsi Question Paper Public Domain eBooks

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