Reg. No. :	

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

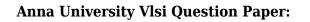
Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- How NMOS and PMOS act as a switch?
- 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?
- Differentiate latches and flipflops.
- 6. What are the basic timing classifications of digital systems?
- List the interconnect parameters in chip design.
- Write the logic equation for 4-bit comparators.
- 9. Sketch the ASIC design flow?
- Differentiate embedded cores and SOCs.

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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
 - o 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
- o Anna University Vlsi Question Paper Budget-Friendly Options
- 6. Navigating Anna University Vlsi Question Paper eBook Formats
 - o 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
 - o 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
 - o 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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