

## CBCS SCHEME

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15EC663

Sixth Semester B.E. Degree Examination, Dec.2018/Jan.2019

## Digital System Design using Verilog

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

## Module-1

1. a. Explain with illustration, a simple design methodology followed in IC fabrication. (10 Marks)
- b. Explain the following constraints imposed in real world circuits:  
i) Noise margin ii) propagation delay. (10 Marks)
- c. Develop a verilog model for a 7-segment decoder, including an additional input, blank, that overrides the BCD input and causes all segments not to be lit. (60 Marks)

OR

2. a. Develop a verilog module of a debouncer for a push button switch that uses a debounced interval of 10ms. Assume the system clock frequency is 100 MHz. (10 Marks)
- b. Design and develop a circuit and verilog module for modulo-10 counters. (10 Marks)
- c. What is the distinction between a Moore and Mealy finite state machine? (60 Marks)

## Module-2

3. a. Write a symbol for basic memory components and explain its parts. (10 Marks)
- b. Explain about the multiplexed memories. (10 Marks)
- c. Compute the 12-bit ECC word corresponding to the 8-bit data word "0110001". (60 Marks)

OR

4. a. Design a 64 K × 16-bit compressed memory using 16K × 8-bit component. (10 Marks)
- b. What is the difference between asynchronous static RAM and synchronous static RAM? (10 Marks)
- c. Using a Hamming code, how many check bits are required for single error correction and double error detection for 4-bit data word? (60 Marks)

## Module-3

5. a. Design a priority decoder that has 16 inputs,  $q[0 : 15]$ ; a 4-bit encoded output,  $z[3 : 0]$  and a valid output  $z_v$  "1" when any input is "1". Input  $q[0]$  has the highest priority and  $q[15]$  is the lowest priority. (10 Marks)
- b. Explain the concept of differential signaling. How does differential signaling improve noise immunity? (10 Marks)

OR

6. a. What are the purpose of logic blocks and I/O blocks in FPGA? (10 Marks)
- b. Explain different types of PCB designs. (10 Marks)
- c. Explain with a neat diagram of the internal organization of a CPLD. (60 Marks)

1 of 2

Important Note: 1. De-compiling your answers, computerized data displayed over time on the remaining blank pages.  
2. Any revealing of identification, applied to evaluation and, the questions written up, 42% to 50, will be treated as malpractice.

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**Arturo Cuomo**



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### **Table of Contents Sample Question Paper Electronics Schools9**

1. Understanding the eBook Sample Question Paper Electronics Schools9
  - The Rise of Digital Reading Sample Question Paper Electronics Schools9
  - Advantages of eBooks Over Traditional Books
2. Identifying Sample Question Paper Electronics Schools9
  - 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 Sample Question Paper Electronics Schools9
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Question Paper Electronics Schools9
  - Personalized Recommendations

- Sample Question Paper Electronics Schools9 User Reviews and Ratings
- Sample Question Paper Electronics Schools9 and Bestseller Lists
- 5. Accessing Sample Question Paper Electronics Schools9 Free and Paid eBooks
  - Sample Question Paper Electronics Schools9 Public Domain eBooks
  - Sample Question Paper Electronics Schools9 eBook Subscription Services
  - Sample Question Paper Electronics Schools9 Budget-Friendly Options
- 6. Navigating Sample Question Paper Electronics Schools9 eBook Formats
  - ePub, PDF, MOBI, and More
  - Sample Question Paper Electronics Schools9 Compatibility with Devices
  - Sample Question Paper Electronics Schools9 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sample Question Paper Electronics Schools9
  - Highlighting and Note-Taking Sample Question Paper Electronics Schools9
  - Interactive Elements Sample Question Paper Electronics Schools9
- 8. Staying Engaged with Sample Question Paper Electronics Schools9
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sample Question Paper Electronics Schools9
- 9. Balancing eBooks and Physical Books Sample Question Paper Electronics Schools9
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sample Question Paper Electronics Schools9
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Question Paper Electronics Schools9
  - Setting Reading Goals Sample Question Paper Electronics Schools9
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Question Paper Electronics Schools9
  - Fact-Checking eBook Content of Sample Question Paper Electronics Schools9

- 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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