

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. (16 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. (54 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. (16 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? (54 Marks)

Module-2

3. a. Write a symbol for basic memory components and explain its parts. (16 Marks)
 b. Explain about the multiplex memories. (10 Marks)
 c. Compute the 12-bit ECC word corresponding to the 8-bit data word "0110001". (54 Marks)

OR

4. a. Design a 64 K \times 16-bit compression memory using 16K \times 8-bit component. (16 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? (54 Marks)

Module-3

5. a. Design a priority decoder that has 16 inputs, $q[0:15]$; a 4-bit encoded output, $a[3:0]$ and a valid output is '1' when any input is '1'. Input $q[0]$ has the highest priority and $q[15]$ is the lowest priority. (16 Marks)
 b. Explain the concept of differential signaling. How does differential signaling improve noise immunity? (10 Marks)
 c. Explain the concept of differential signaling. How does differential signaling improve noise immunity? (54 Marks)

OR

6. a. What are the purpose of logic blocks and I/O blocks in FPGA? (16 Marks)
 b. Explain different types of PCB designs. (10 Marks)
 c. Explain with a neat diagram of the internal organization of a CPLD. (54 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.

Sample Question Paper Electronics Schools9

Robert R. Redfield



Sample Question Paper Electronics Schools9:

Handbook of Home Language Maintenance and Development Andrea C. Schalley, Susana A. Eisenclas, 2020-06-22 Even a cursory look at conference programs and proceedings reveals a burgeoning interest in the field of social and affective factors in home language maintenance and development To date however research on this topic has been published in piecemeal fashion subsumed under the more general umbrella of bilingualism Within bilingualism research there has been an extensive exploration of linguistic and psycholinguistic perspectives on the one hand and educational practices and outcomes on the other In comparison social and affective factors which lead people to either maintain or shift the language have been under researched This is the first volume that brings together the different strands in research on social and affective factors in home language maintenance and development ranging from the micro level family language policies and practices to the meso level community initiatives and the macro level mainstream educational policies and their implementation The volume showcases a wide distribution across contexts and populations explored Contributors from around the world represent different research paradigms and perspectives providing a rounded overview of the state of the art in this flourishing field

A Decade of Research on School Principals Helene Årlestig, Christopher Day, Olof Johansson, 2015-11-13 This book provides a unique map of the focus and directions of contemporary research on school leadership since 2000 in 24 countries Each of these directions has its own particular cultural educational and policy history Taken together the various chapters in the volume provide a rich and varied mosaic of what is currently known and what is yet to be discovered about the roles and practices of principals and their contributions to the improvement of teaching and the learning and achievement of students The particular foci and methodological emphases of the research reported illustrate the different phases in the development of educational policies and provision in each country This collection is an important addition to existing international research that has shown beyond any reasonable doubt that the influence of school principals is second only to that of teachers in their capacity to impact students progress and achievement and to promote equity and social justice

The Study of Stanford and the Schools ,1987 **Documentation Abstracts** ,1994 Resources in Education ,1998

Research Quarterly for Exercise and Sport ,2008 The Weekly Japan Digest ,1999 *Computer Education* ,1995

Cincinnati Magazine ,2003-04 Cincinnati Magazine taps into the DNA of the city exploring shopping dining living and culture and giving readers a ringside seat on the issues shaping the region **American Educational Research**

Association Annual Meeting Program American Educational Research Association,2000 **Resources in Education** ,1990 *Yearbook of International Organizations* Union of International Associations,2001 Yearbook of International Organizations ,1967 Handbook of Research on Teacher Education John P. Sikula, Association of Teacher Educators,1996

The first edition of this text sought to provide a basis for improving the education of teachers at every level Committed to the idea that the betterment of teacher education is essential to the improvement of schools it provided understanding of the

research so that professionals could compare evaluate and create effective programmes **The Times Index** ,1978 Indexes
the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational
supplement Scotland and the Times higher education supplement **Physics Briefs** ,1985 **Editor & Publisher** ,1959
The fourth estate

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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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