

## 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  $is\_1$  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.

# Sample Question Paper Electronics Schools9

**Victor M. Corman**



## Sample Question Paper Electronics Schools9:

Documentation Abstracts ,1994      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      **Resources in Education** ,1998      **A Decade of Research on School Principals** Helene Ärlestig,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 Weekly Japan Digest** ,1999

Computer Education ,1995      The Study of Stanford and the Schools ,1987      Research Quarterly for Exercise and Sport ,2008      **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      *Resources in Education* ,1990

American Educational Research Association Annual Meeting Program American Educational Research Association,2000

*Editor & Publisher* ,1959 The fourth estate      *Physics Briefs* ,1985      **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  
    **Yearbook of International Organizations** Union of International Associations,2001      **Yearbook of International  
Organizations** ,1967

## **Sample Question Paper Electronics Schools9** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Sample Question Paper Electronics Schools9**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://crm.avenza.com/public/virtual-library/Documents/Outboard%20Motor%20Rigging%20Guide.pdf>

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