

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 multiplex 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 $\times$ 16-bit computer memory using 16K $\times$ 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, $a[3 : 0]$ 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. (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% of 80, will be treated as malpractice.

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Victor M. Corman



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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 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 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

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00. 1. Pipe coupling. Atlas Copco GA 75 Spare Parts Catalog SN: API625433 2023 ... Dec 9, 2023 — Atlas Copco GA75 Spare Parts Catalog Serial Number: API625433 -2023 Version, GA55 etc parts list latest update. Atlas Copco Ga 75 Parts Other atlas copco ga 75 parts options include motor compressor head, bearing bush, valve plate, valve plate assembly, oil pump, heater, oil return system, sight ... Atlas Copco GA 55 VSD, GA 75 VSD, GA 90 VSD Parts Full List Sep 17, 2021 — In this post, we list all the parts list for Atlas Copco air compressor models: GA 55 VSD, GA 75 VSD, GA 90 VSD. 2901086100: KIT BEARING GA75 2901086100: KIT BEARING GA75. Air Compressor Spare Parts. For price and availability - complete the ...

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calls out ... [86-07] - wiring diagram | Kawasaki Ninja 250R ... Dec 13, 2015 — Here you go. Caution!!! The OEM ignition switch has a 100 ohm resistor, without it the bike won't start, it's an anti-thief feature. PM310, 23hp Kawasaki Wiring Diagram Gravelly 990020 (001000 -) PM310, 23hp Kawasaki Wiring Diagram Exploded View parts lookup by model. Complete exploded views of all the major manufacturers. Kawasaki Barako BC 175 Electrical Wiring Update Aug 11, 2017 — If there are no problems on the wirings and connectors; 2. Check the input to the VR, there are two wires coming from the charging coils. One is ...