

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 $\times$ 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% to 50% will be treated as malpractice.

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Xiang Xie



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