

FACULTY OF ENGINEERING**B.E. 4/4 (ECE) I - Semester (Main) Examination, December/January 2014-15****Subject : VLSI Design****Time : 3 Hours****Max. Marks: 75****Note: Answer all questions of Part - A and answer any five questions from Part-B.****PART – A (25 Marks)**

- 1 What are the basic components of a verilog module? (2)
- 2 What is the difference between a gate instantiation and module instantiation? (2)
- 3 Distinguish between procedure and function declarations in verilog. (2)
- 4 Draw the synthesis process flowchart. (3)
- 5 Draw the basic pseudo nMOS inverter and give the relative merits and demerits of the same with respect to CMOS. (3)
- 6 State the significance of design rules. (2)
- 7 Draw the stick diagram of CMOS 2 input XOR gate. (3)
- 8 Write the expressions for Rise time, fall time and maximum signal frequency. (3)
- 9 Draw the schematic diagram of D-flip flop using Transmission gates. (2)
- 10 Draw the circuit diagram of six Transistor RAM Cell. (3)

PART – B (50 Marks)

- 11 (a) Differentiate blocking and non-blocking assignments with suitable examples. (4)
- (b) Write a verilog code and its test bench for a 4-bit comparator. (6)
- 12 Explain briefly about FSM module. Develop a verilog code for mealy model for 4 states. Assume present state, next state and output. (10)
- 13 (a) Explain the operation of n-channel Depletion mode MOSFET with neat diagrams and characteristic curves. (5)
- (b) Derive the expression for pull up to pull down ratio of an NMOS inverter driven by another nMOS inverter. (5)
- 14 (a) With suitable sketches explain the main steps that are followed in standard Si CMOS fabrication process. (6)
- (b) Draw the Transmission Gate based XOR and XNOR circuits. (4)
- 15 (a) Draw the stick diagrams and Layouts of Transmission gate and two input NAND gate. (6)
- (b) How to estimate Resistance and capacitance of a MOS Transistor? (4)
- 16 (a) Explain the operation of Manchester carry adder with neat diagrams. (5)
- (b) Draw the logic diagram of 8-bit NOR based ROM and explain its operation. (5)
- 17 Write short notes on the following:
 - (a) carry skip adder (5)
 - (b) Continuous assignment and delays in dataflow modeling (5)

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Roman Wölfel



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