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14EVE12

First Semester M.Tech. Degree Examination, June/July 2015
Digital VLSI Design

Time: 3 hrs. Max. Marks:100

Note: *Answer any FIVE full questions.*

1 a. Discuss gradual channel approximation concept in MOSFET and derive the current expression for MOSFET operating in saturation region. **(10 Marks)**

b. Discuss the second order effects of MOSFET and arrive at current expression for MOSFET in saturation region considering channel length modulation. **(06 Marks)**

c. Discuss how constant voltage scaling affects the current and power characteristics of MOSFET. **(04 Marks)**

2 a. Discuss the voltage transfer characteristics of CMOS inverter mentioning the regions of operation and input and output voltages. **(06 Marks)**

b. Calculate V_{TH} for a CMOS inverter when $k_n = k_p$, $k_n = 2\,k_p$ and $k_n = k_p/2$ with $V_{Tn} = 0.6$ V, $V_{Tp} = -0.7$V and $V_{DD} = 3.3$ V. From the calculations, discuss how variations in k_n and k_p affects V_{TH}? **(08 Marks)**

c. With the neat schematic, mention the parasitic capacitances in the CMOS inverter? **(06 Marks)**

3 a. Explain the concept of voltage bootstrapping. **(05 Marks)**

b Discuss the charge sharing problem in CMOS circuits. Explain the various techniques used in domino CMOS logic for solving charge sharing problem. **(10 Marks)**

c. Design negative edge triggered D – Flipflop using true single phase clock (TSPC) dynamic CMOS logic. **(05 Marks)**

4 a. Design 4 × 8 NOR based ROM array that can store the following data given in table 4(a). Note : R_1, R_2, R_3 R_4 → Address and C_1, C_2, C_3 C_4 C_5, C_6, C_7, C_8 → Memory Locations. **(06 Marks)**

R_1	R_2	R_3	R_4	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
1	0	0	0	0	1	0	1	0	1	0	0
0	1	0	0	1	1	1	0	0	1	0	0
0	0	1	0	1	0	0	0	0	0	0	0
0	0	0	1	1	1	1	1	0	1	1	1

b. Draw a neat schematic of 6 T SRAM cell and discuss write '0' and read '0' operation? **(10 Marks)**

c. Explain the working principle of 3T DRAM cell. **(04 Marks)**

5 a. Discuss CMOS switching power dissipation and derive the expression for average switching power dissipation. **(06 Marks)**

b. CMOS circuit consisting of 20 nodes with power consuming voltage transition (α_{01}) per clock cycle consumes a power of 10 µW for a give C_{load} = 0.1 pF and V_{DD} = 1.8 V. Find the maximum operating frequency of the CMOS circuit if the node transitions is increased from 20 to 30. What is the change in switching power dissipation? **(08 Marks)**

c. Discuss briefly variable threshold CMOS and multi threshold CMOS circuits. **(06 Marks)**

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