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1 CCN2272 Logic Design – Lab01 discussion worksheet Discussion questions for Lab01 1a. Logic gates 1. Consider setup A (the switch is above the 10k  $\Omega$  resistor). Fill in the table below: Action Input Voltage Output Voltage State of LED Leave the switch open (off) Press to close the switch (on) 2. Consider setup B (the switch is below the 10k  $\Omega$  resistor). Fill in the table below: Action ...

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For a state machine with 9- 16 states, a binary FSM only requires 4 flip-flops while a one hot FSM requires a flip-flop for each state in the design FPGA vendors frequently recommend using a one hot state encoding style because flip-flops are plentiful in an FPGA and the combinational logic required to implement a one hot FSM design is typically smaller than most binary encoding styles.

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ANALOG ELECTRONICS VIVA & INTERVIEW QUESTIONS PROF. HITESH DHOLAKIYA Ans Slew rate is the maximum rate of change of output voltage per

unit of time. Q-12 What do you mean by gain band width product of an op-amp? Ans The gain bandwidth of an op-amp is the "bandwidth when the voltage gain is unity".

## **Analog Electronics viva & interview questions**

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1) Explain how logical gates are controlled by Boolean logic? In Boolean algebra, the true state is denoted by the number one, referred as logic one or logic high. While, the false state is represented by the number zero, called logic zero or logic low. And in the digital electronic, the logic high is denoted by the presence of a voltage potential.

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