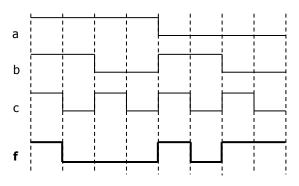
Quiz 1 (September 23rd @ 5:30 pm)

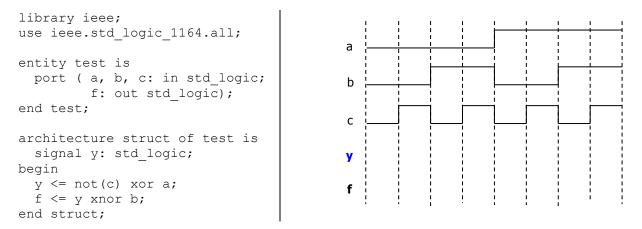
PROBLEM 1 (40 PTS)

• The following is the timing diagram of a logic circuit with three inputs. Simplify the Boolean expression of the circuit and sketch the minimized circuit.



PROBLEM 2 (30 PTS)

• Complete the timing diagram of the logic circuit whose VHDL description is shown below:



PROBLEM 3 (30 PTS)

• Complete the timing diagram of the digital circuit shown below. You must consider the propagation delays. Assume the propagation delay of every gate is 5 ns. The initial values of all signals are plotted in the figure.

