Lab 8 Answer Sheet

Name and Std ID:	Lab Section:					
Date:						
Submission Instructions:						
Prelab:						

- 1. Complete the prelab
 - 2. Submit this report with the prelab completed to Canvas before your lab starts

Lab:

- 1. Complete the lab according to the instructions
- 2. Take screenshots of your ModelSim waveform (note: to receive points your NetID has to be present in the screenshot) and insert them into this document.
- 3. Include screenshots of any related block design files or Verilog files in the report
- 4. Complete this report and reupload it to Canvas

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PRELAB:

Q1. Read section 2.1 and write the Verilog code for a 4-to-1 multiplexer.

Q2. Design a 4-bit shifter as described in Section 3.1 of the lab description. Sketch the block diagram for your design showing the multiplexers, the inputs, outputs and the selectors to each multiplexer.

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Q3. Refer to Section 3.1 of the lab description and complete the following table before you come to the lab:

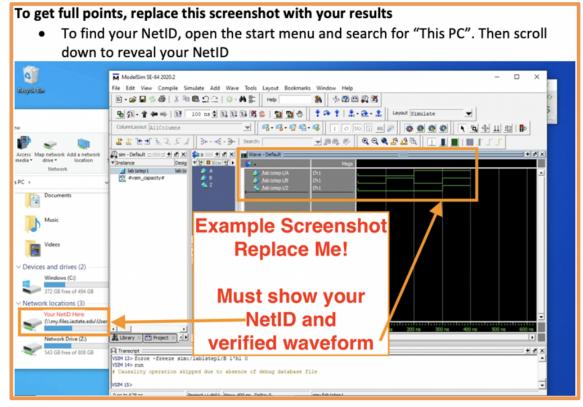
Х3			ХO								F1	F0
1	0	0	1	1	1	0	0	1	0	0	1	1
1	1	1	0	0	0	0	1	1				
1	1	1	0	0	1	1	0	0				
1	1	0	1	0	1	0	1	0	***************************************			
1	0	1	1	0	1	1	0	1				

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LAB:

2.1 Hardware results demonstrate a good circuit. <<Insert a screenshot or copy your 4-to-1 multiplexer here>>

<>< Insert a screenshot of your waveform for the 4-to-1 multiplexer here>>>



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3.2 Hardware results demonstrate correct code. <<Insert a screenshot of your shifter here>>

<<< Insert a screenshot or copy your DO file here >>>

<<< Insert a screenshot of your waveform for the shifter here>>>

