Cpr E 281 LAB08 ELECTRICAL AND COMPUTER ENGINEERING IOWA STATE UNIVERSITY

Lab 8 Answer Sheet

Name and Std ID:	Lab Section:
Date:	
PRELAB:	
Q1. Read section 2.2 and write the Verilog code for a 4-to-1 multip	plexer.

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		X1					S1		F3		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				

LAB:

- **2.4** Hardware results demonstrate a good circuit. TA Initials: ______
- **3.1** ModelSim results demonstrate correct code. TA Initials: _____