Cpr E 281 LAB5 ELECTRICAL AND COMPUTER ENGINEERING IOWA STATE UNIVERSITY

Lab 5 Answer Sheet

Name and Student ID:	Lab Section:
Date:	
PRFI AR:	

Q1. Use Figure 1 and the table below to fill in the truth table on the next page.

Display	W	Х	Υ	Z
	0	0	0	0
l I	1	0	0	0
2	0	1	0	0
3	1	1	0	0
'- ¦	0	0	1	0
5	1	0	1	0
6	0	1	1	0
٦	1	1	1	0

Z	Y	Х	W	Display
1	0	0	0	
1	0	0	1	
1	0	1	0	日
1	0	1	1	_Ū
1	1	0	0	لا
1	1	0	1	~ □
1	1	1	0	
1	1	1	1	

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Z	Υ	X	W	Α	В	С	D	E	F	G
0	0	0	0	0	0	0	0	0	0	1
0	0	0	1							
0	0	1	0							
0	0	1	1							
0	1	0	0							
0	1	0	1							
0	1	1	0							
0	1	1	1							
1	0	0	0							
1	0	0	1							
1	0	1	0							
1	0	1	1							
1	1	0	0							
1	1	0	1							
1	1	1	0							
1	1	1	1							

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Q2. Write the verilog code for the 7-Segment Display Decoder based on the truth table from Q1. You only need to write the skeleton code (i.e., a code which shows only a rough outline and no unnecessary or repetitive details) below.

TA Initials:	
LAB:	
3.0 Lab5step0 Hardware demonstrates a good circuit. TA Initials:	
4.0 Lab5step1 Hardware demonstrates a good circuit. TA Initials:	