Iowa State University

Lab 1 Answer Sheet

Name and Student ID: Devin Amdahl, 053855830 Lab Section: 1

Date: 1/19/22

PRELAB:

Q1. Fill in the Truth Table below for an AND gate:

A	B	C
0	0	**0**
0	1	**0**
1	0	**0**
1	1	**1**

Q2. What does the .bdf file extension stand for?

The .bdf file extensions stands for "Block Design File".

Q3. What is the name of the FPGA on the DE2-115 board?

The name of the Field Programmable Gate Array, or FPGA, on the DE2-115 board is "Cyclone IV E".

TA Initials: _____

LAB:

2.0 Fill in the Truth Table for *lab1step1*:

A	B	C
0	0	
0	1	
1	0	
1	1	

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Logic Expression: _____

Quartus Simulation TA Initials: _____ Questa ModelSim TA Initials: _____

4.0 Fill in the Truth Table for *lab1step2*:

W	X	Y	Z
0	0	0	
0	0	1	
0	1	0	
0	1	1	
1	0	0	
1	0	1	
1	1	0	
1	1	1	

Logic Expression: _____

TA Initials: _____

4.0 Fill in the Truth Table for *lab1step3*:

A	B	C	F

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Logic Expression: _____

TA Initials: _____