

Name and Student ID: Thriambak Giriprakash ID: 716358687 Lab Section: 3

Date: 5/20/2020

PRELAB:

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

A	B	C
0	0	0/False
0	1	0/False
1	0	0/false
1	1	1/true

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

Bit Distribution Format

LAB:

2.0 Fill in the Truth Table for *lab1step1*:

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

Logic Expression: $A+B = C$

4.0 Fill in the Truth Table for *lab1step2*:

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

Logic Expression: $(w'xy')+(wx'y')+(wx'y) = z$

4.0 Fill in the Truth Table for *lab1step3*:

A	B	C	F
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0
1	1	0	1
1	0	1	1
1	1	1	0

Logic Expression: $(A'B'C)+(A'BC)+(AB'C)+(ABC')=F$