## Cpr E 281 LAB3 ELECTRICAL AND COMPUTER ENGINEERING IOWA STATE UNIVERSITY

Date:\_\_\_\_\_

PRELAB:

## Lab 3 Answer Sheet

Name and Student ID:\_\_\_\_\_\_ Lab Section:\_\_

## Cpr E 281 LAB3 ELECTRICAL AND COMPUTER ENGINEERING IOWA STATE UNIVERSITY

## Lab 3 Answer Sheet

**Q2.** Read section 4.0 and fill in the truth table below for Design 2 (*adding the farmer*). Then use it to construct the SOP expressions.

Farmer	Cabbage	Goat	Wolf	Alarm
0	0	0	0	
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	

Canonical SOP Log	ic Expression:		
Simplified SOP Log	gic Expression:		
TA Initials:			
LAB:			
3.0 Hardware resu	ults demonstrate (	correct code. TA Initials:	
Schematic	Structural	Behavioral	
4.0 Hardware resi	ults demonstrate o	correct code. TA Initials:	