TUSHAR
SHRIVASTAV

COEN 21 - PRE LAB

a) and b)

Truth table

S	M	L	A
1	1	1	1
1	0	1	0
0	0	0	0
0	1	1	0

input = $\{S, M\}$
output = $\{L, A\}$
Light=1, Alarm=1
Light=1, Alarm=0
BOTH OFF
Light=1, Alarm =0

c) Logic Circuit

Alarm only triggered when
$S \cdot M = 1$