

0	I <sub>0</sub>
1	I <sub>1</sub>

\* Practice Questions.

1.

<u>Sun(S)</u>	<u>Ants(A)</u>	<u>HB(H)</u>	<u>LB(L)</u>	<u>E</u>
0	0	0	0	0
0	0	0	1	0
0	0	1	0	1
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	0
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

$$E = H + AL + S\bar{A}$$

3

4.	$A_2$	$A_1$	$A_0$	$y_6$	$y_5$	$y_4$	$y_3$	$y_2$	$y_1$	$y_0$
	0	0	0	0	0	0	0	0	0	0
	0	0	1	0	0	0	0	0	0	1
	0	1	0	0	0	0	0	1	1	1
	0	1	1	0	0	1	1	1	1	1
	1	0	0	1	1	1	1	1	1	1



6.

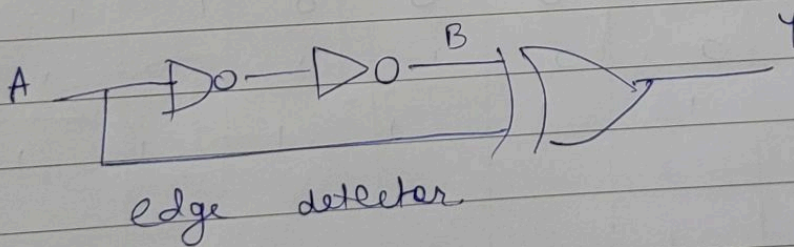
$A_3$	$A_2$	$A_1$	$A_0$	$Y$
0	0	0	0	0
0	0	0	1	1
0	0	1	0	0
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	0
0	1	1	1	1
1	0	0	0	1
1	0	0	1	0
1	0	1	0	1
1	0	1	1	0
1	1	0	0	1

$$Y = \overline{A_2} \overline{A_1} A_0 + \overline{A_3} \overline{A_2} A_1 A_0 + \overline{A_3} A_2 \overline{A_1} A_0 + \overline{A_3} A_2 A_1 \overline{A_0}$$

7.

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

XOR





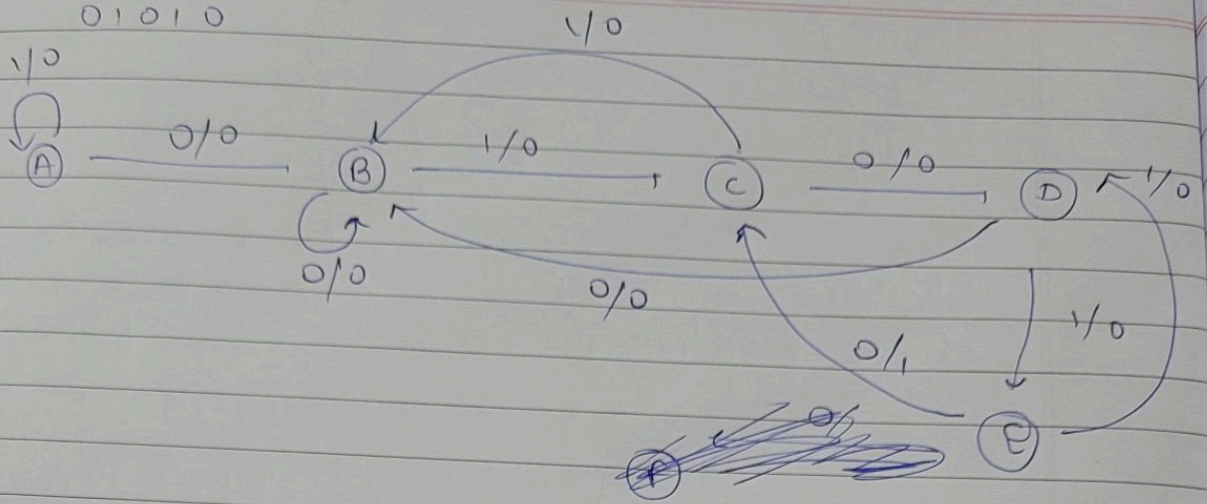
01/00

classmate

Date

Page

9.





\* Practice Questions.

1.

<u>Sun(S)</u>	<u>Ants(A)</u>	<u>HB(H)</u>	<u>LB(L)</u>	<u>E</u>
0	0	0	0	0
0	0	0	1	0
0	0	1	0	1
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	0
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1