Logic Design & Computer Organization Lab

Assignment 1 - IC Testing

Name: Gopal Saraf

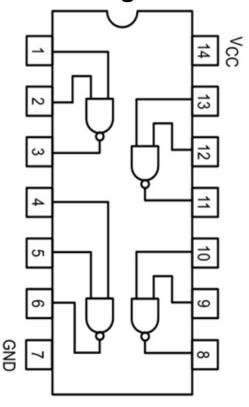
Class: SE 09

Batch: H9

Roll No: 23168

NAND GATE

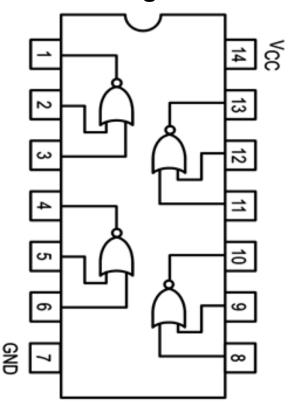
Pin Assignments



Truth Table

Input		Output
А	В	Y = $\overline{A.B}$
0	0	1
0	1	1
1	0	1
1	1	0

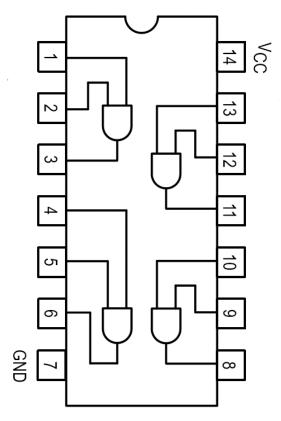
NOR GATE



Truth Table

Input		Output
Α	В	A+B
0	0	1
0	1	0
1	0	0
1	1	0

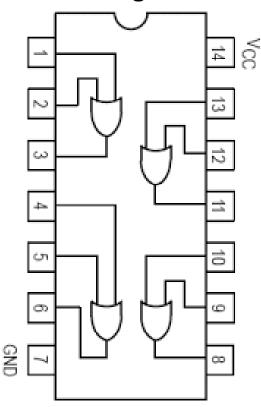
AND GATE



Truth Table

Input		Output
Α	В	Y=A.B
0	0	0
0	1	0
1	0	0
1	1	1

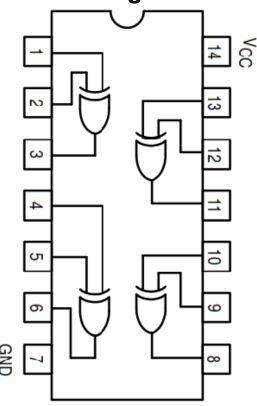
OR GATE



Truth Table

Input		Output
Α	В	Y=A+B
0	0	0
0	1	1
1	0	1
1	1	1

XOR GATE



Truth Table

INPUTS		OUTPUT
а	b	A XOR B
0	0	0
1	0	1
0	1	1
1	1	0

Tinkercad Circuit:

