Name: Sifaf Abdullah

10: 19101384

Sec: 01

CSE 350 (abo)
Report

Can

or mode:

VA	4	YR,	VR_	TRI	TRZ	VR=Y	]
5.	5	X	0	2·2×16 <sup>5</sup>	2.2×10	_	
5	6	0.01	0	4.4X165	4.4×160	44087	
				1	(		1
				V			-

Dans! in diode And cincuit we can see when one suffer is high and other input is low then both the input is low the output is also low me but when both the cincuitis high the output is also high which is what we expect from and gute.

2) It we change the value of  $V_A = V_B = 6$ to in the postware the output is still same
as 5 v. so the diode is working.

## **OR Gate:**

Va	Vb	Vr1	Vr2	lr1	Ir2	Vr=Y
5	5	0	0	2.21e-005	2.21e-005	4.4349
5	0	0.1	0	4.4e-005	4.4e-012	4.4087
0	5	0	0.1	4.4e-012	4.4e-005	4.4087
0	0	0	0	1.19e-02	1.19e-02	1.38e-015

## And Gate:

Va	Vb	Vr1	Vr2	lr1	Ir2	Vr=Y
5	5	0	0	5e-012	5e-012	5
5	0	0	-0.01	9.41e-012	4.4e-005	0.591
0	5	-0.01	0	4.4e-005	9.41e-012	0.591
0	0	0	0	2.21e-005	2.21e-005	0.5651

## Inverter:

vi	Vr1	Vr2	vrc	I1	12	ib	ic	Υ
5	4.3	5.7	-4.89	0.0002	5.7e-005	0.0002	0.002	0.108
0	0.65	4.35	0	4.35e-005	4.3e-005	3.196e-012	1.7e-011	5



