Name - Manjeet Single University Roll Mo - 2101110 Student ID - 21711074

Caurse - mcA

Subject > Camputer Organisation and Architecture

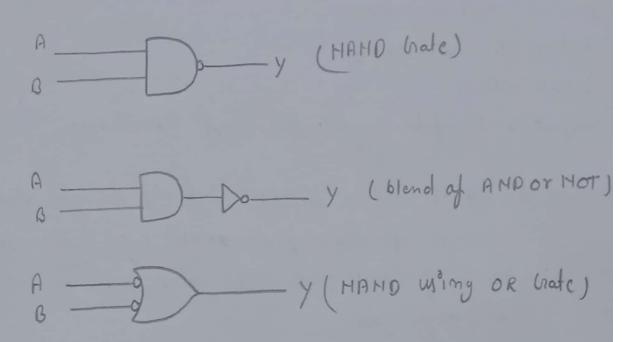
Inswer-t NAMO Gate A NAMO Gate is the gate that perform reverse afteration of an MAMO logic gate. It is blend of AMO and MOT gates and is commanly weal dogic gate.

The NAND gate has an autput that is normally at logic high and only gas to logic low when all of sts inputs are at logic high. The logic HAND Crate you's the reverse or complemetry design of HAND gate.

MAND hate Symbol > The NAMO gate is AMO gate succeeded by MOT gate. A HAMO gate comptitutes and or more "Imput with a single autput. The MAMO gate represented by a Symbol whose shape matches the AMO gate with a circle followed, often identified as an inversion circle.

allingh

Circuit Diagram +



allimit

The Booleam enpression for a logic NAND gate is represented by a Single dot or full stap, (.) folkered by line or Overline. (-) over the enpression to imply the MOT or logical megation of the NAND gate, Below is the MAND that boolean enpression for two inputes.

$$\left[\begin{array}{cccc} \gamma = \overline{A \cdot B} & \overline{A} + \overline{B} \end{array}\right]$$

Truth table >

	Imput	Output	
A	В	У	
0	0	1	
0	1	1	
1	0	1	
1		0	

=> 3 - imput HAND brate > the three imput HAND gate has three imputs. The symbolic representedation of the three imput HAND gate is as follow.

allingh

Scanned with CamScanner



The boaleum enpression of the logic HAHD gate is represented as the bimary operation dat (·)

A, B and c are the imput and y is outfait.

Truth table t

-	A	B	C	У
	0	0	0	1
	0	0	1	I
	0	1	0	1
	0	1	1	1
	()	0	0	1
	1	0	1	I make
	1	1	0	1 24 2
	1	1	1	0

Mingh