## MID TERM PRACTICAL

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MID-TERM Practical \$1. Discus --- NAND gete --- truth Ans gate - A NAND gate output (o) only if all its inputs are true, and high output (1) otherwise. Hunce the NAND get is the inverse of an AND gette, and its circuit is produced by connecting an AND gets to a NOT gets. Just like an AND gett, a NAND gett may have any number of input probes but only one output probe.

Dorking of NAND gate - The NAND gate

performs the Logical NAND operation.

NAND gates are known as universal gates

NAND gates NOR gates), which means they are

(along with NOR gates), which can implement

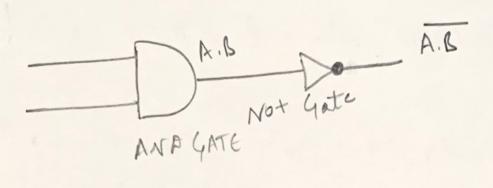
a type of logic gate which can implement

any boolean function without the need to

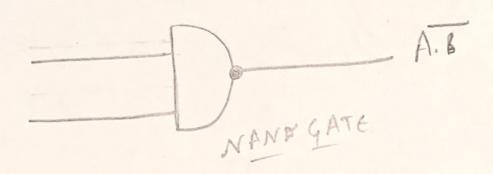
use any other gate type.

Ackinh

The basic logical construction of the NAND gate is shoon below:



The symbol of a NAND get is similar to the AND get, but a bubble is drawn at the output point of the AND get a. The symbol of the NAND get is shown tolow:



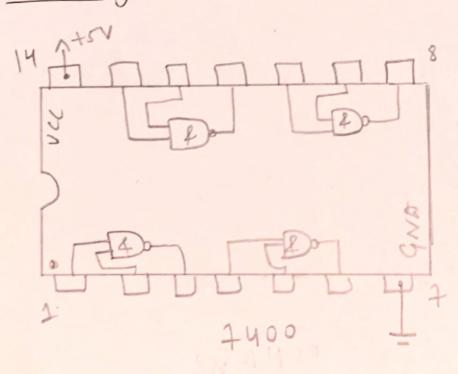
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Thuth table :-

2 input NAND gets

Inputs Output		
A	B	X= A.6
0	0	1
0	1	1
1	0	1
	1	0

Circuit diagram:



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