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course :- MA section: A) subject: Computer Organisations!

1: Aim : To study logic gate NAND

Apparatus Required :- NAND gate IC, power supply , Hook up wires and bread board etc

Theory & The NAND gate is a special type of logic gate in the digital logic circuit. The NAND gate is the "UNIVERSAL GATE" which means that all the basic gates such as AND, OR and NOT gate can be constructed using a NAND gate NAMP gate is a combination of the NOT-AND gate The output state of the NAND gate will be low only when all the inputs are high.

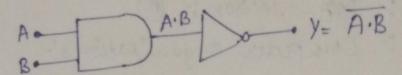
The logic or Boolean for the NAND gale is the complement of logical multiplication of imputs denoted by a full stopor a single

(A·B)'= y.

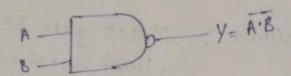
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The Yalue of Y will be true when any one of the Input

Circuit Diagram!

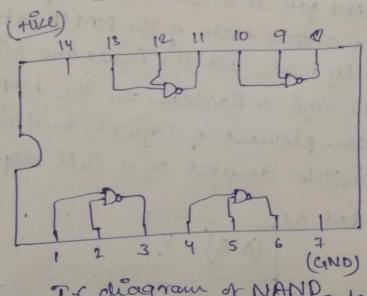


2- Input "AND" gate plule a "NOT" gato



Truth Table +

Input	Oupute
A B	y = A·B
0 0	1
0 1	1
1 1	0



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