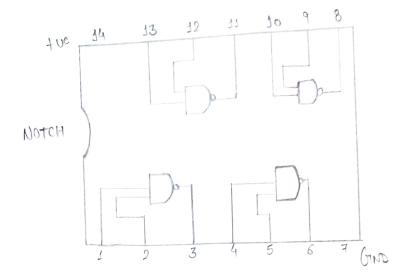
Name - Neeraj Singh Behra Course - McA Semester - 1 Section - A Oniversity - 2101129
Roll not - 2101129 Mid-term Practical Bream 84. Id - 217 11105 Subject - Computer Organisation and Architecture Quest. Discuss the working of NAND gate with the help of Circuit diagram and truth table. Ans NAND Grate: The NAND gate is a special type of logic gate in the digital logic circuit. The NAND gate is the universal gate. It means all the basic gates such as AND, OR, and NOT gate can be constructed using a NAND gate. The NAND gate is the combination of the NOT-AND gate.

The output state of the NAND gate will be low only when all the inputs are high. Simply, this gate neturns the complement gresult of the AND gate. result of the AND gate. The logic or Boolean expression for the NAND gate is the complement of logical multiplication of inputs denoted by a limit stop as inputs denoted by a full stop or a single dot as (A.b) = Y

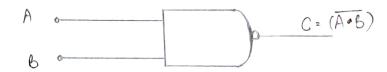
The value of Y will be true when any one of the input is set to 0.

IC Diagram:



TC10 = 7400

Logic Diagram:



Truth Table:

Input		Output
A	в	(= (A.b)
0	0	1
Ö	1	1
1	0	1
1	1	0

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