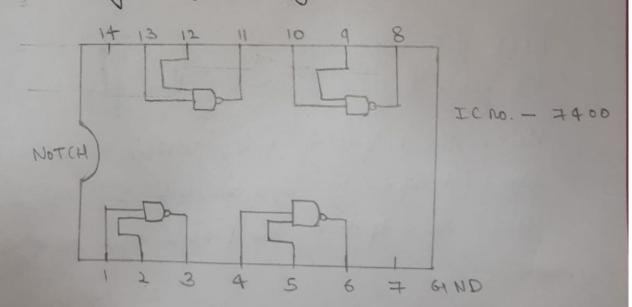
Name - Manvi Bisht Class - MCA & Sem Uniwesity rollno. - 2101116 Student id - 21712125 Father's name-Bhupal Singh Bisht Roll no. - 60 Section- 'A'

Computer Organization & Architecture Mid term Practical Exam.

Anss. Working of NAND gote -

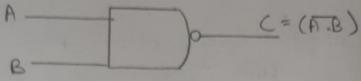
A NAND gate is a logic gate that produces a low output (o) only if all its inputs our true & high output (1) otherwise. Hence, the NAND gate is the inverse of an AND gate, & its circuit is produced by connecting an AND gate to a NoT gate.

Circuit diagram of NAND gate:



man Room

Symbol of NAND gate -



Truth Table :

SNPUT		OUTPUT
A	В	C= A.B
0	0	1
0	1	1
1	0	1
i	1	0

NAND gate means "not AND gode", hence the output of this gate is just reverse of that of a similar AND gode. Here, the output is only logical O when is only when all inputs of the gode are 1's & in all other cases, the output of the NAND gode is high or 1.

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