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Course - MCA

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Sec. - A

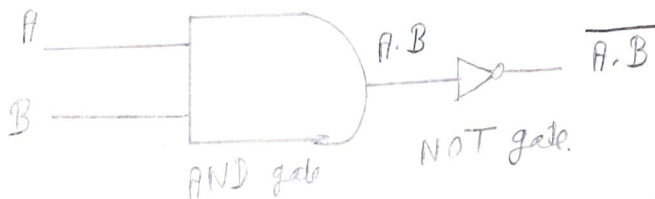
Ans \Rightarrow

A NAND gate is a logic gate that produces a low output (0) only if all its inputs are 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.

WORKING \Rightarrow

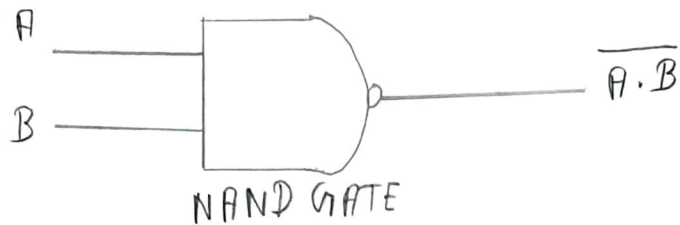
The NAND gate performs the logical NAND operation. NAND gates are known as Universal gates, which means they are a type of logic gate which can implement any Boolean function without the need to use any other gate type.

The basic logical construction of the NAND gate is \div



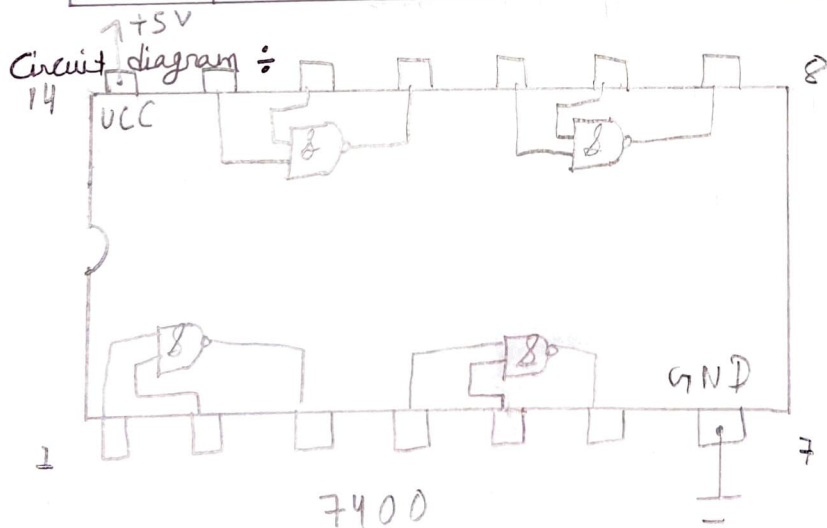
Deepak

Symbol \div



NAND Gate truth table \div

Inputs		output	
A	B	$A \cdot B$	$\overline{A \cdot B}$
0	0	0	1
0	1	0	1
1	0	0	1
1	1	1	0



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