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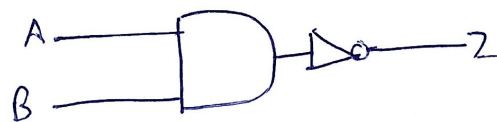
MCA-1(A)

Roll no. 67

NAND GATE - The NAND gate is a combination of AND gate and NOT gate. It is also called ~~Negate~~ Negated And gate. The NAND gate provides the false or low output only when the output is high or true. The NAND gate is essential because different type of boolean function are implemented by using it.

The NAND gate has the property of functional completeness. The functional completeness means any type of gates can be implemented by using NAND gates.

Circuit diagram -



$$Z = \overline{A \cdot B}$$

Truth Table

A	B	Z
0	0	1
0	1	1
1	1	0
1	0	1