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University Roll No. :- 2105050 Course :- MCA

Subject :- Computer Organization.

1. NAND Gate

- * The NAND gate is the combination of NOT gate and AND gate.
- * These both gates are connected in a cascade form.
- * The NAND gate gives higher output, if any of the inputs are low.
- * The NAND gate is represented by a AND gate with the small circle on the output.
- * The small circle represents inversion.
- * It is also called ~~Negated~~ AND gate.
- * The NAND gate is essential because different types of a boolean function are implemented by using it.

Badal Chaurhan

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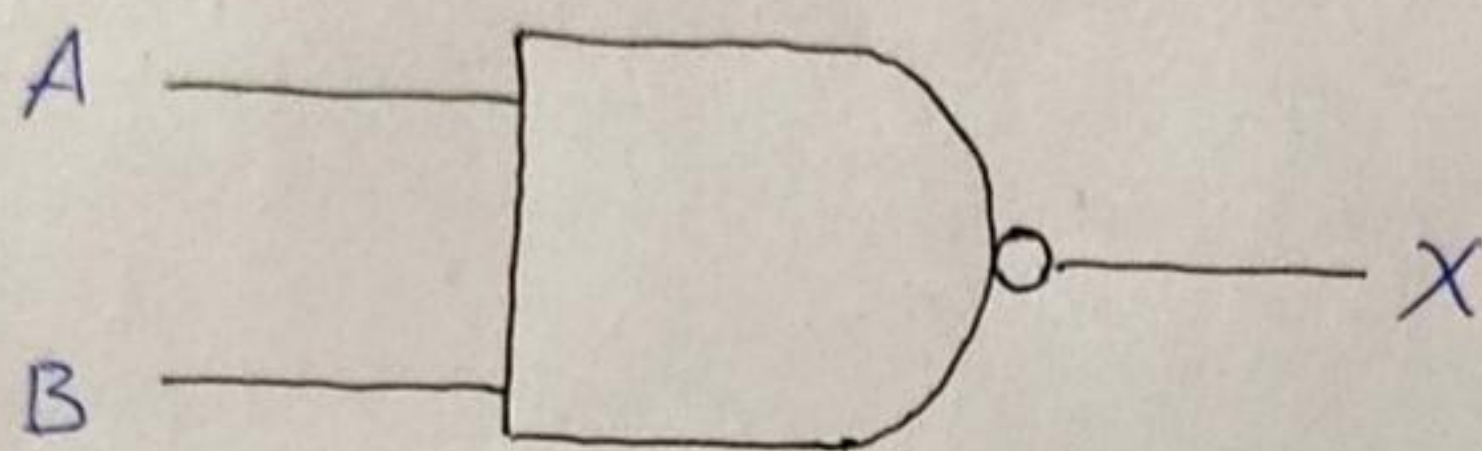
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Circuit :-



Algebraic Function \Rightarrow

$$X = (AB)' \quad \text{OR} \quad X = \overline{A \cdot B}$$

Truth Table :-

A	B	X
0	0	1
0	1	1
1	0	1
1	1	0

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