23.10.24.

Digital Electronics.

All electronic components either have high / low voltage.

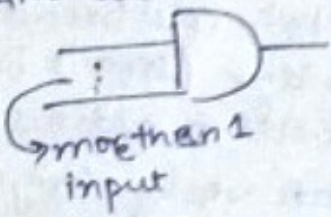
AND OR NOT
NAND NOR XOR XNOR

All logic circuit depend on these gates

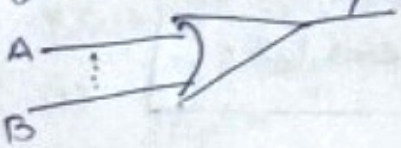
Truth Table: On input voltage what output. Logic Gate (morethen one input and only one output).

Basic Gates:
1. AND.
2. OR.
3. NOT.

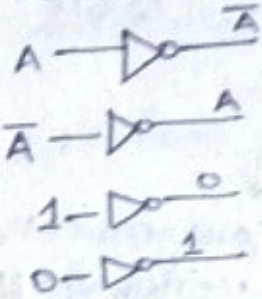
1. AND Gate

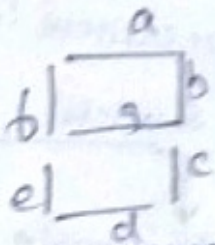


2. OR Gate.



3. NOT (Buffer Gate): This does complementing.

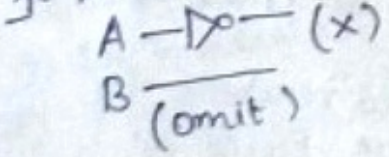


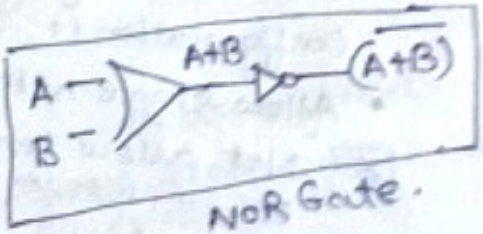


7-components is a logic (field-effect display).

Universal logic Gate:
The Gate in which Basic Gate output is obtained:
① NOR = NOT AND OR.
② NAND = NOT AND AND.

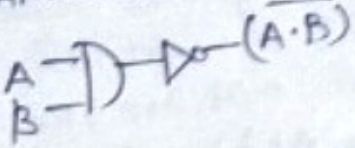
1. NOR





NOR Gate.

2. NAND Gate



Combination is acc. to logic.
They are logical components and not physical component.

Derived logic Gates

2 Derived logic Gates
1. X-OR (Executive OR)
2. X-NOR (Executive NOR)
It is made using the Universal Gates.