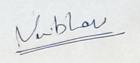
Vaibhar Bhatt 21711079 Rall No-84 Section - B PV-21010243



Answers A NAMD get is a logic gate that producers a low output (0) only if all its inputs are true and high output (1) otherwise. Hence the NAND gate is the inverse of an AND gate and its circuit is produced by connecting an AND gate to a NOTgate. One Just like an AND gate, a NAND gate may be any number of input perobes but only one output for one?

The NAND gate performs the logical NAND operation.

NAND gate are Known as universal gates, which

means they are a type of logical gate.

AB

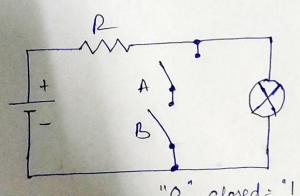
AB

NAND By Grate:

Truth table

Input		Output
A	B	$\dot{X} = \overline{A \cdot B}$
0	0	1
0	1	1
1	0	1
1	1	0

A NAND gate is also referred to as a universal logic gate as all the binary operations can be realized by using only NAND gates.



Switch A - open = "0", closed = "1"
Switch B-open = "0", closed = "1"