MID TERM PRACTICAL computer Organisation

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1. F.D

NAND gate: The NAND gate is 'AND' gate
succeeded by NOT yate.

NAND gate is an inverted AND gate. (Not +AND)

Symbol:

Truth Table:

lade.						
1	X	y	2	F=XYZ		
	0	O	0	1		
	0	0	1	1		
	0	-1	0	1		
	0	1	1	1		
	1	0	0	1		
	-1	0	1	1		
	1	1	0	1		
1	T	1	1	0		

J=XYZ

The NAND gate is a combination of an AND gate and NOT gate. They are connected in cascade form. It is also called Nogated And gate.

The NAND gote provides the jake or low output only when their outputs is high or true.

→ The NAND gate is essential because different types of a boolean function are implemented by using it.

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

-> NAND gate diagram

Touth table:

TA	В	F
0	0	1
0	1	7
1	0	4
1	1	0