Name: Ayush Godiyal, Course: MeA, Student 10: - 21711017 Subject: Computer Organization, Roll No: 2101046

ans 1:- XIAMO Gate

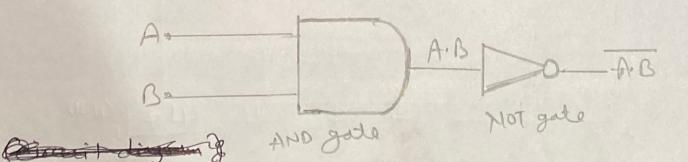
A NAND gate ("no+ AND gode") in a logic that produces a low out output (0) only if all its inputs are true rand high output (1) otherwise. Hence the NAND gode is the inverse of an AND gode, and its circuit is produced by connecting an AND gode to a Not gode. Just like an AND gode, a NAND gode may have any number of infect probes but only one output probe.

Morking

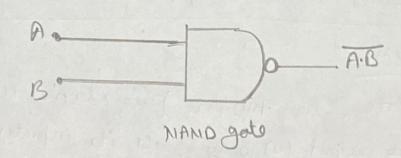
The NAND gate performs the logical NAND approaction.

NAND gates are known as universal gates (along with MOR gettes), which means they are a type of logic gate which can implement by Bustean function without the need to use any other gate.

The bearic legical Construction of the NAND gete is
AND gate followed by NOT gete



Symbol



truth table

Inputs		Outputs	
A	B	A.B	AB
0	0	0	1
0	1	0	I
(1	0	0	ı
ゴ	1	I	0

when both Inputs one high it products output land

circuit diagram

