Cse 260

Lab Assignment - 1

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Ans: (1) Name of the Experiment:

Familiarization of Fundamental Logic Gates

2 Objective:

To get familiarized with fundamental logic gates and demonstrate the input output relationship of 2-input AND(IC-7408), OR (IC-7432) and NOT (IC - 7404) gates by constructing their truth

■ To get familiarized with logic logic gates like NAND (IC - 7400), NOR (IC-7402), XOR (IC-7486) and XNOR (IC-74266)

3 Required Components and Equipments:

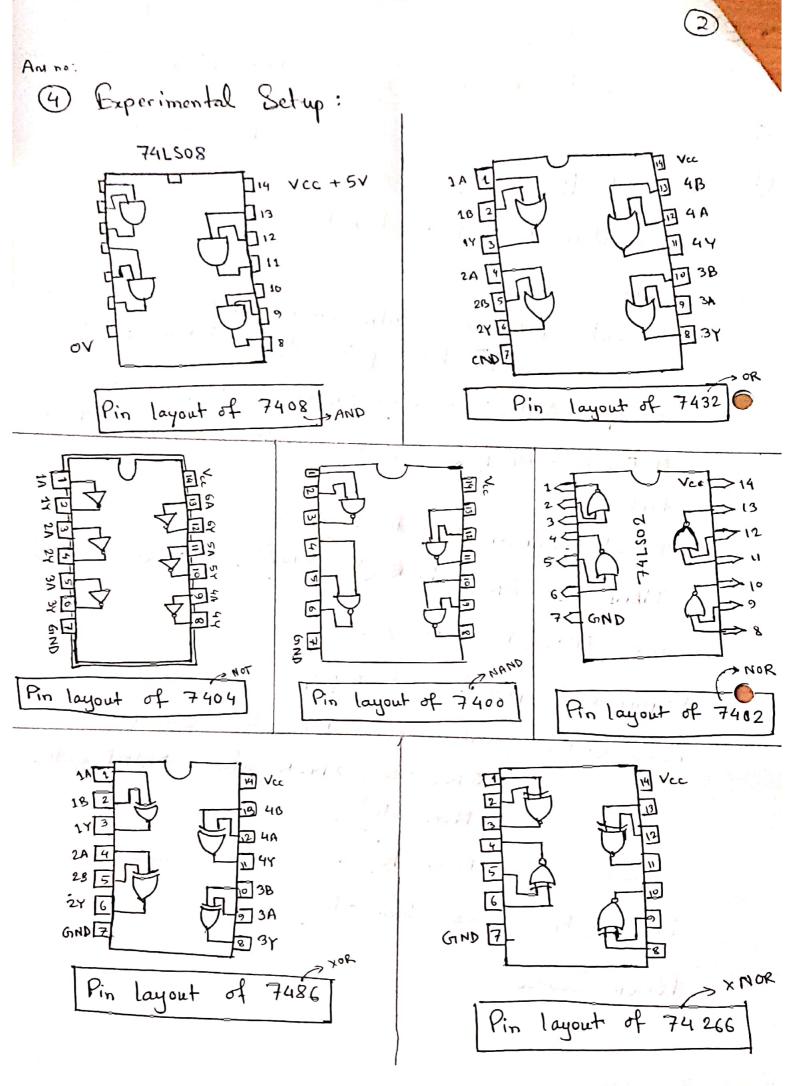
Logic Grates (AND gate, NOT gate, OR gate, XOR gate, XNOR gate, NAND gate,

NOR gate),

Inputes (using logicitate),

LEDS (Blue and other colors),

Power Source.



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And no:

(5) Results (Twuth Table) and Discussione.

Results (Truth Table):

-					,		
A	В	AND	or	MAND	NOR	XOR	XNOR
Ò	0	0	0	1	1	D	1
0	1	0	1	7	Ó	1.	0
1	0	0	1	1	0	1	0
1	1	1	1	0	0	0	1

Discussions:

My Outcomes were all as stated by the Truth Table: Cuhen 1, 8 the LED light to turns blue, when O, the LED light does not turn on i've swie it is off. Limitation: Only turn on and off, no inbetween switch, only I and O.

Challenges: No Library is visible in Proofens software unless administrators mode turned on. What I learn't: Logic gates, How to use Proteus Software, Different circuit materials (i.e. 1)

Software, Different circuit materials (i.e. 1)

IC, Breadboard, Trainer Board) introduction,

How the Logic gates are implemented in

Proteus, inner Structures of different

Ics (Integrated Circuits).