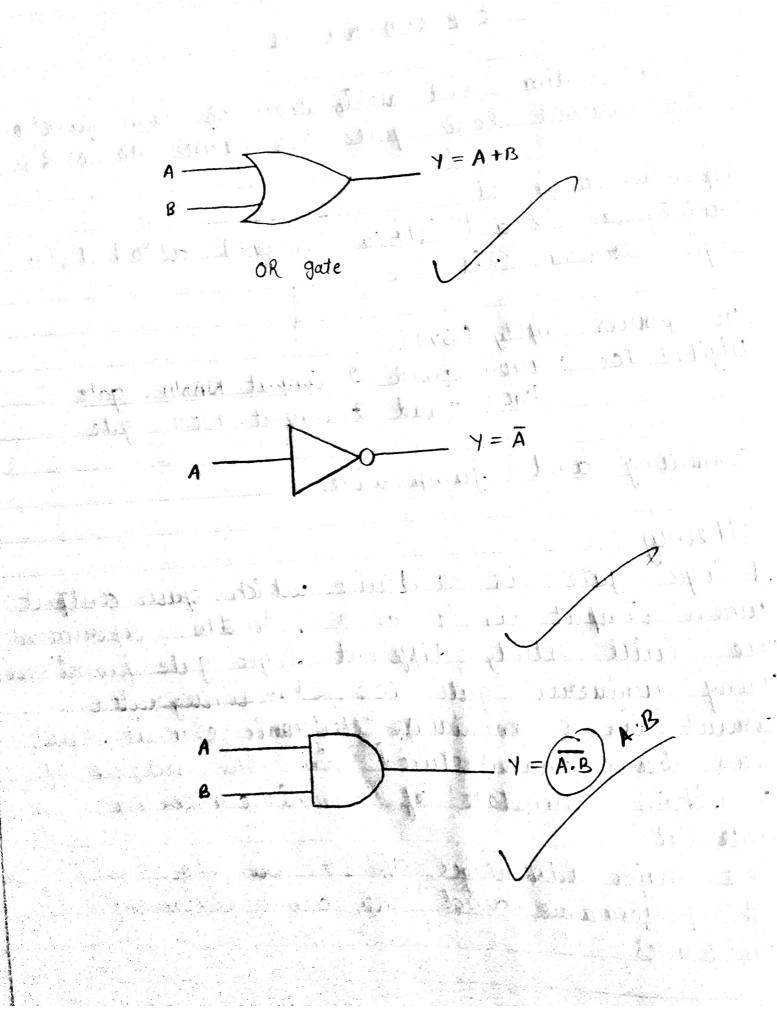
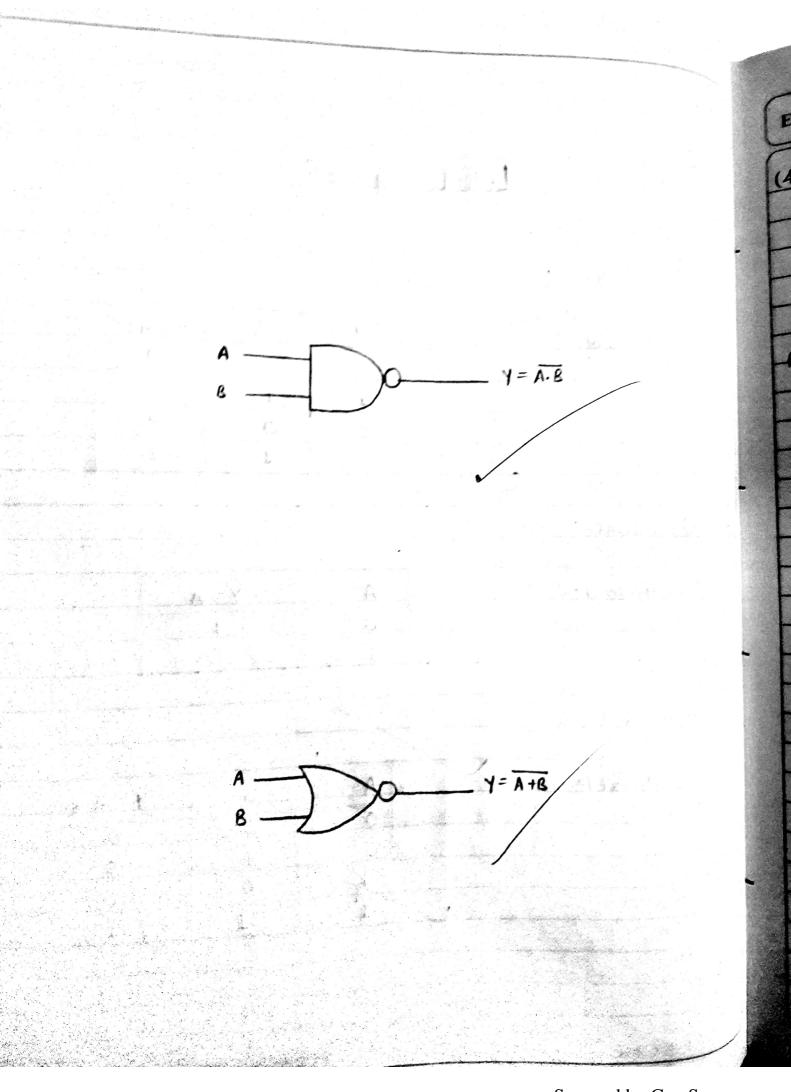
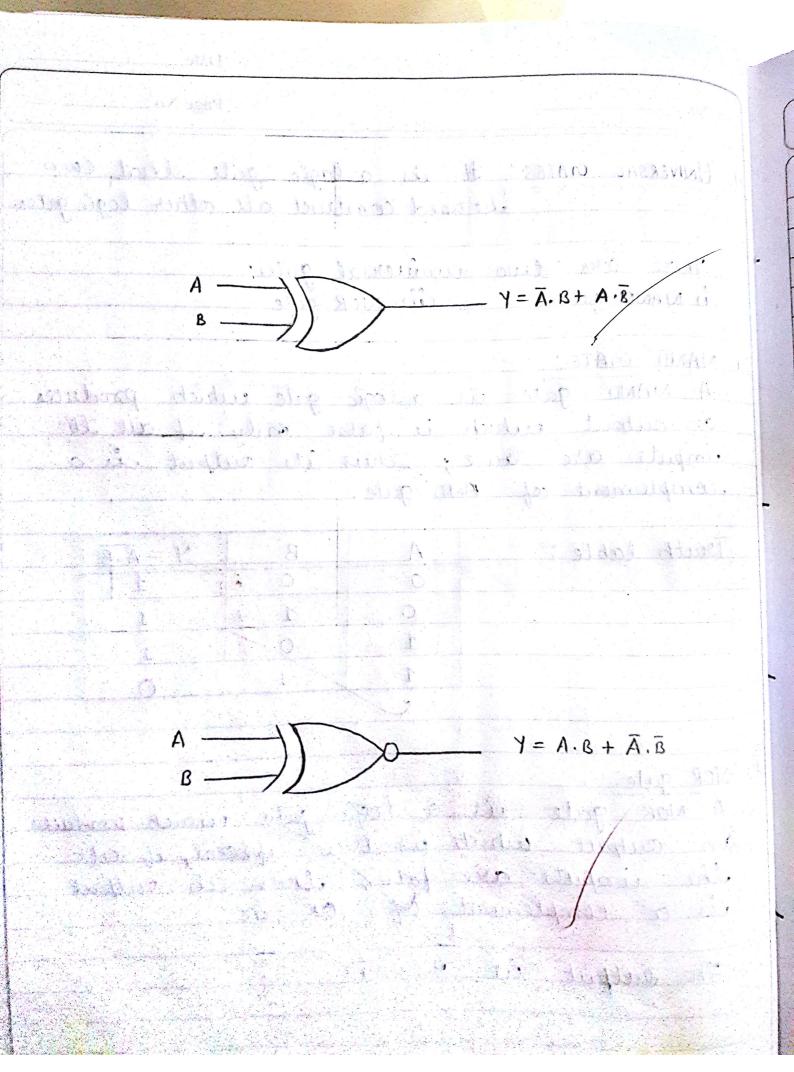
	EXPERIMENT-01
	dim: - Realisation and verification of logic functions using various logic gates Ics (NAND And NOR).
	Apparatus Required:
	Priototyping board (bread board) attained lu logic brainer kit:
	DC pouler supply (5v) Digital Ici: 7400 quad 2 input NAND gate 7402 quad 2 imput NOR gate
	7402 quad & imput NOR gate
	Connecting and jump wires.
	Theory:
	A logic gate is a device which gives content when imput is '1' or '0'. In this experiment
	when imput is '1' or 'o' . In this experiment
·	the cut string argentia sugar gare guinaisins
	asing universal gate Ic's an untegrated
	circuit is a miniature electronic circuit that
9	has been manufactured in the surface of
	a thin substate of semi-conductor
	material.
	The major advantages of Ici are low cost,
	the major advantages of Ic's are low cost, high performance and they also consume
	les pouls.
	Medi-Caps Teacher's Signature :



	LOGIC	GATES	<u> </u>		
(1)	OR' WATE:	-		å	
	Touth table:	A	В	Y= A+B	
		0	0	0	
		a	1	1	1. 7
		1	0	1	
		1	1	1	<u></u>
(2)	NOT WATE:				* *
	Touth table:	A	y =	Ā	
		0	1		
		1	0	i de	1 2
(3)	AND WATE:				
	Touth table:	A	В	Y = A	1. B
-		0	0	0	
		0	1	0	
		1	0	0	

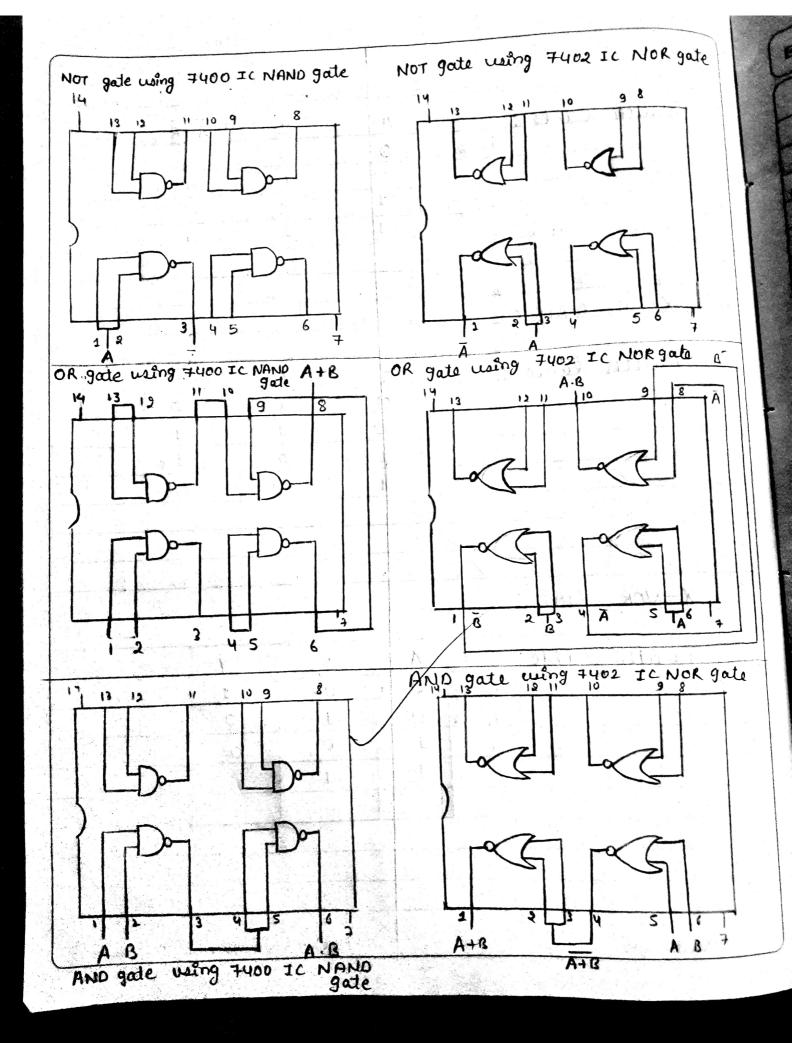


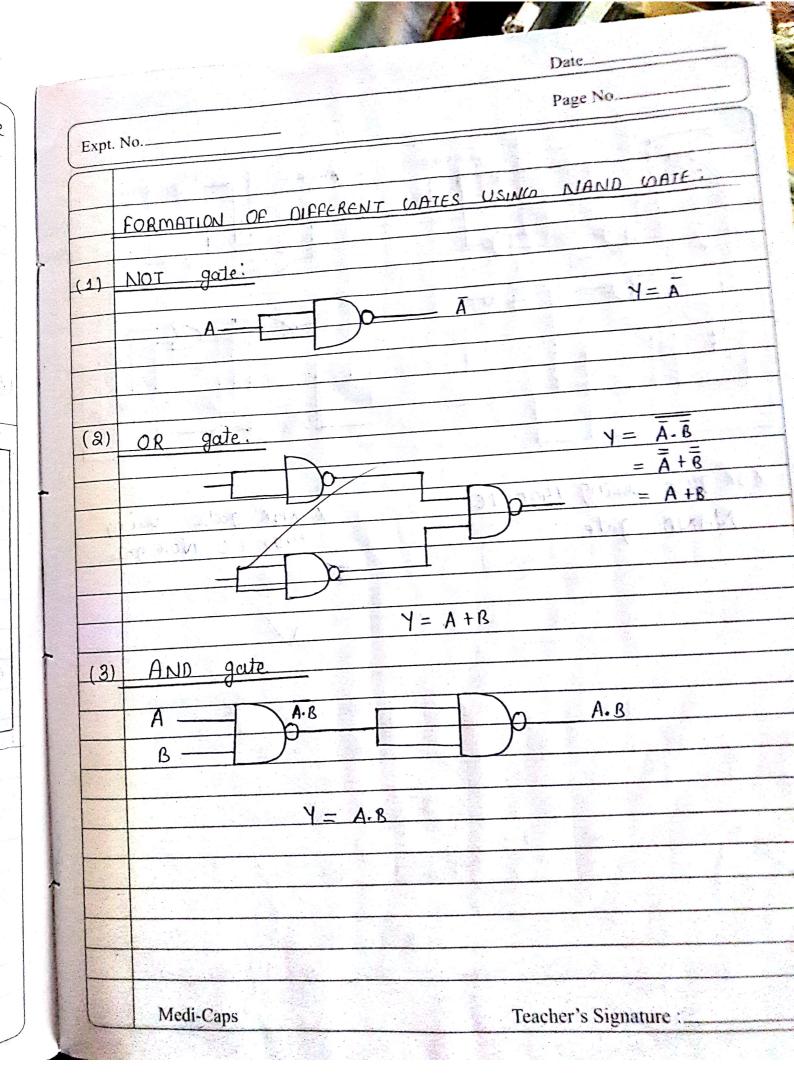
Touth table:	A	В	$Y = \overline{A \cdot B}$	
	0	0 6	1	
	0	1 %	1	
	1	0	1	
	1	1	. 0	

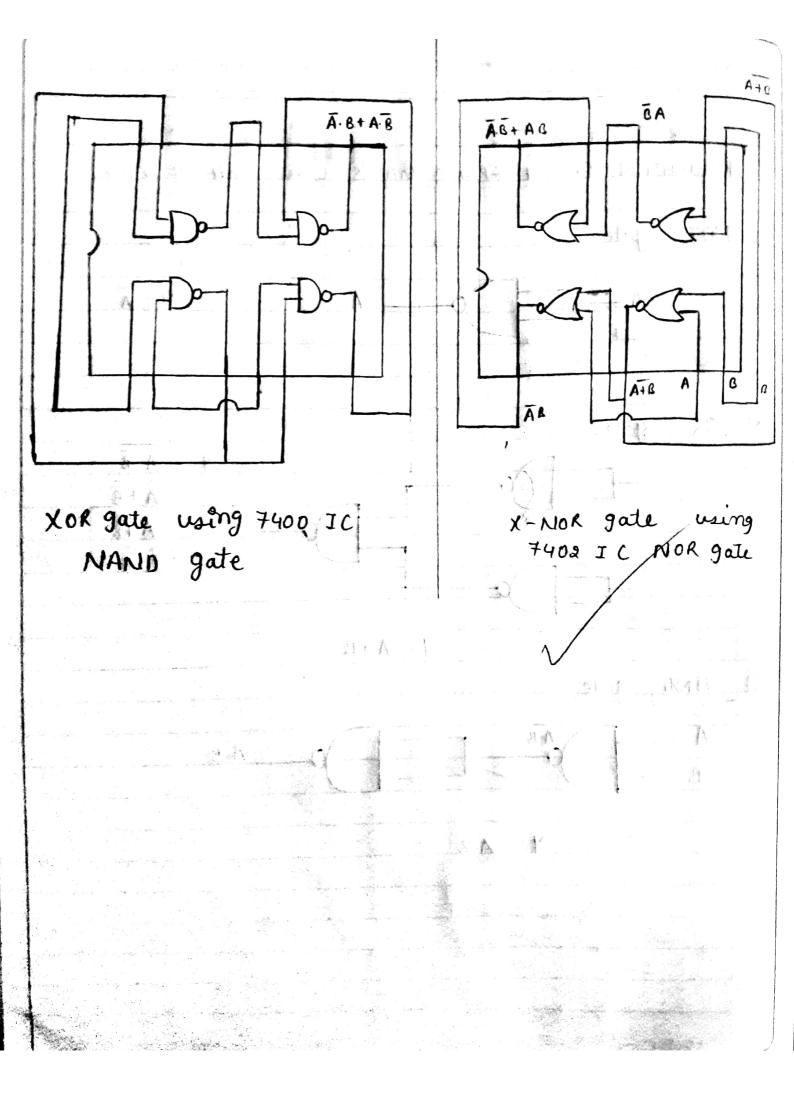


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		+			
Touth	table:	A	B	Y= A + B	
		0	0	1	
		0	1	0	
		1	0	0	
		1	1	0	
		2			
$5) \times -06$	COATE:		1	4 4 7 4 4 5 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
		<u> </u>	-		
Teul	h table:	A	B	1 N 2	B' 1
		0	0		
		0	1	1	
		1	. 0	1	
		1	1	0	
	255				
(6) Y-14				4.3	
X-M	OR CATE:		- 1, - 1		
	A	1		4	4 .
- Teu	th table:	A	В	Y	
		0	0	1	
		0	1	0	
		1	0	0	
		1	1	1	







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none and the first of the region of the second of the second	Date
Expt. No	Page No
(4) X-OR	WATE:
	$A \longrightarrow A \cdot \overline{B}$
	B — Do A'S
	$Y = (\overline{A \cdot \overline{B}}) \cdot (\overline{A})$
	7 - (A.B.). (A
	E DO A
	Ā. B
	$Y = (A \cdot \overline{B}) \cdot (\overline{A \cdot B})$
,	$= (\overline{A}.\overline{R}) \cdot (\overline{\overline{A}}.R)$
	$= (A.\overline{B}) \cdot (\overline{A}.B)$
(5) X-NO	? WATE
A	A.B
В	
	Y= (A·B). (A.B
A -C	D A Q
- B-E	Do B A.B
	- 3 A.5
	$Y = (\overline{A}.\overline{B}). (\overline{A}.\overline{\overline{B}})$
	/ - (A.D.). (A.S.)
	Y = A.B + A.B
A XX	$Y = A \cdot B + \overline{A} \cdot \overline{B}$
Conclu	ion! All the gater have been verified using universa
Medi-(Teacher's Signature: