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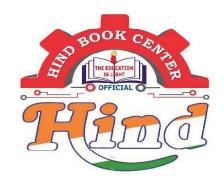
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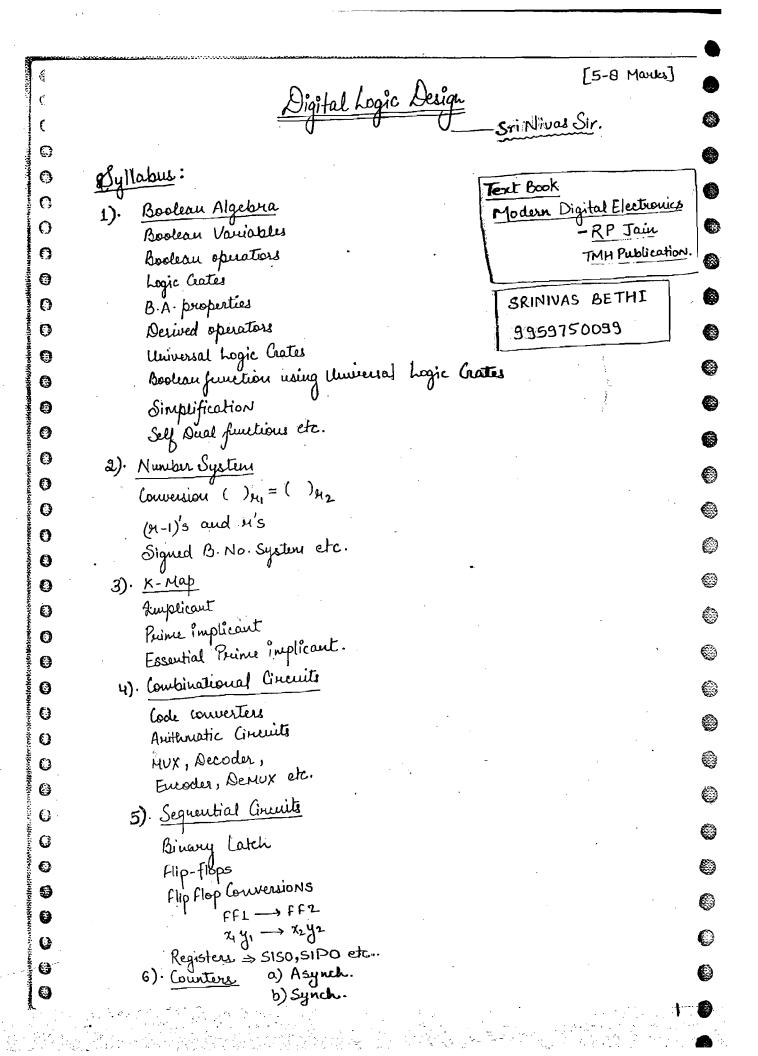
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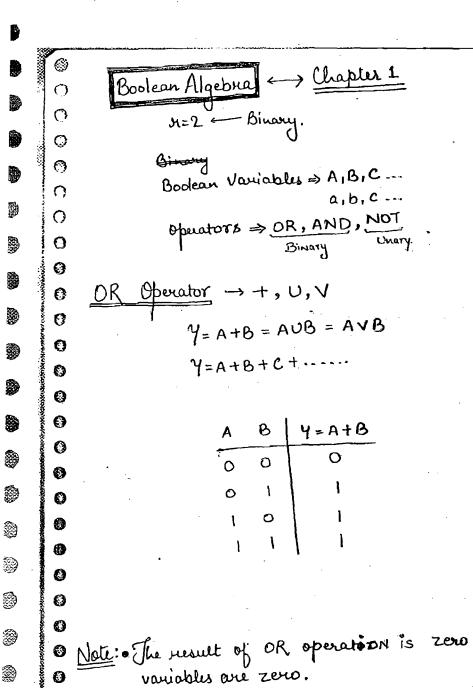
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 \bigcirc $\int_{t_{k}}^{t_{k}}\tilde{A}_{k}$ \bigcirc .(O 0





Note: • The result of OR operation is zero if and only if, all the

· OR Grate

()

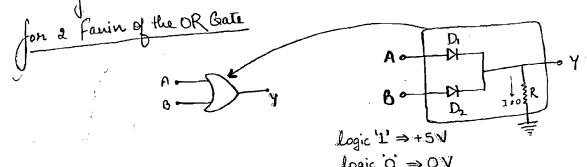
6)

ABC

F 1 1

Y=A+B+C

· No. of inputs in the logic gate is known as Fanin of the logic gate.



Logic O → OV

Touth Table is one consisting of all possible combination of the variables along with the result.

for
$$n \Rightarrow a^n \text{ Rows}$$
value $\Rightarrow [0,1,2,....(2^n-1)]$

Α	B	4= A.B	
0	0	0	
D	1	٥	
ì	0	0	
1	ł	.1	

A	B	C.	Y= A.B.C	
O	0	0	0	
D	0	1	0	
O	1	0	0	
0	ľ	1	0	
i	0	0	O	
}	0	1	0	
j	Ī	٥	0	
1	1	1	. 1	

Note: • The result of AND operation is zero, if at least one of the variable is zero.

· AND Grate

#

4 A = O ⇒ Y = B	or B	AND O
$ \begin{array}{ccc} \downarrow & A = L \Rightarrow Y = \\ \downarrow & A = B = x \Rightarrow Y = \end{array} $	1 x	8 x
D 4 A ≠B ⇒ Y=	1	0
Enable input ⇒	.0,	1
Disable input ⇒	Ţ.	.0.

0

• Enable 1/p is the one, it makes the device active.

Disable 1/p is the one, it will make the device is to be inactive.

() 0 Y= A = A' 0 Y = NOTA \bigcirc (1) 0 **()** · NOT Gate Note: 0 · NOT operator is also known as Inverter. 0 0 0 BOOLEAN ALGERRA PROPERTIES: 0 Distributivity. 1). A+A+... = A 6). A+BC = (A+B) (A+C) 0 A · A · A · - - · = A Dual of (6). A . [6+C] = AB + AC 0 2) A+0=A 7). A+ AB = A+B 0 A[A+B] = AB $A \cdot 1 = A$ 0 8) A+AB = A+B 0 A+1=1A[A+B] = AB 0 A.0 = 0 9). A+AB = A 0 4). A. A = 0 A[A+B]=A0 $A + \overline{A} = 1$ 0 Dual Operation 0 OR - AND 0 $0 \longleftrightarrow 1$. **(3)** 3 0 Nus. A+B[C+D(E+F)] 0 Dual ⇒ Ā[B+C[D+ĒF]] 0 3 0 Variable 'x' 0 Literal 'x' => 'x' or 'x' 0 There is No effect of the dual operation on the 0 0

Literal.

Z