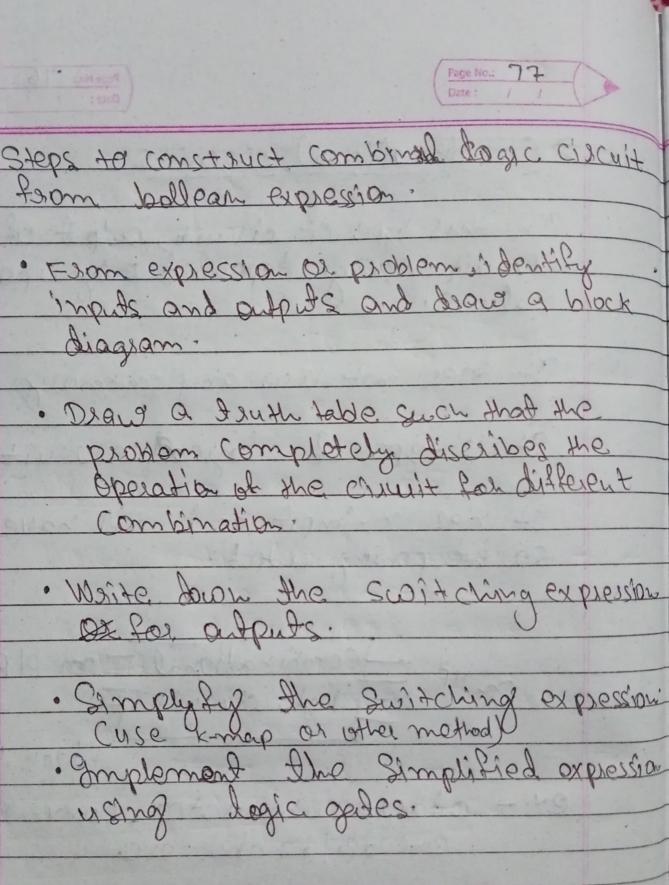
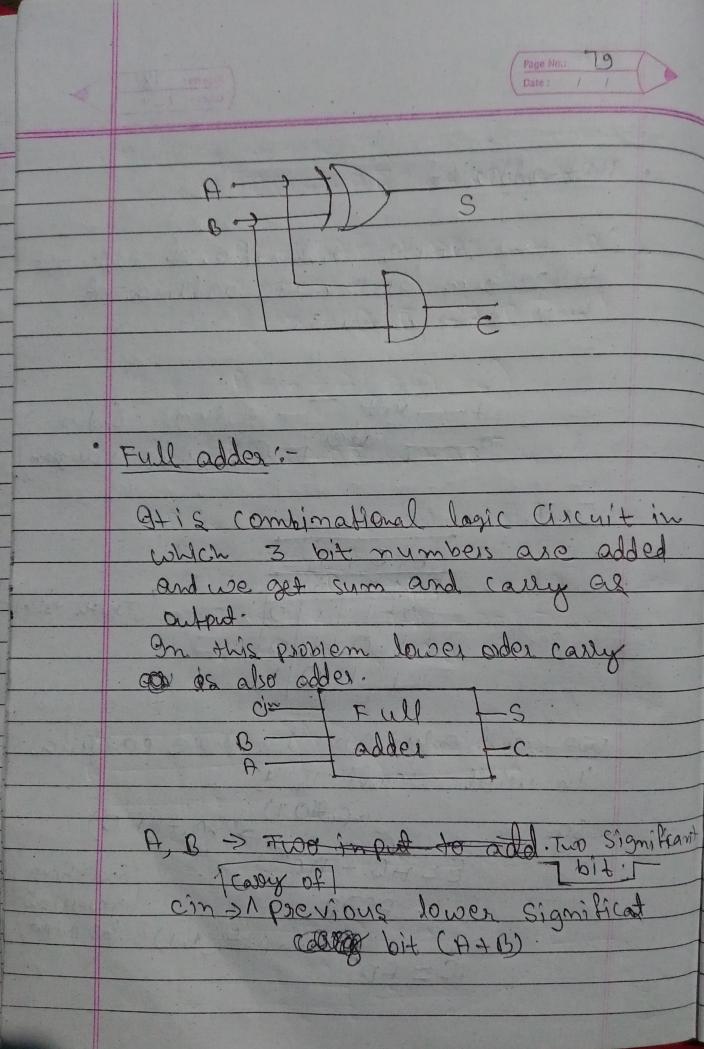


-	> Combinational cisquits:-
	On this type of classiff output of the classiff only depended only upon most values.
	ciacuit only depended only upon ment
23	yalues.
	The state of the s
	94 goes not iso and memoria.
	The state of the s
	94 15 type of logical ciscuit
	94 nas n-mpt and will have m
	34 nas n-mpt and will have m consesponding output.
	is in the interest of the inte
	The state of the s
	myp - Combinational + m olp
	n IP = logic ciscuit =
	block diagram
	ex adder, subtractor, convertes,
	encoder/geroger etc.
	Cincoae) a ecoco



· Half-addes :-9+ is a simple combination of circuits to perform anthmetic addition of two binary digits. A- Halt F-SCSUM) (block 1 add es FC (carry) (Truth table) we will only consider those condition 'In will result is i' input(01) 50, S=AB+AB Switching for owput = APB C= AB Sinput(1,1)



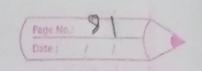
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	input			00	Output		
	A	B	Cin		C		
à	0	0	0	0	.0		
6	0	0	061	Towns of many	D		
	0	1	0	1	D		
	0	1	10	0	1		
,	1	0	0	1	D		
	. 1	0	acle!		1		
	1	1	0	. 0	)		
	1		1	10-10-1	1		

Switching expression of output is made by summing all input for which output is 1.

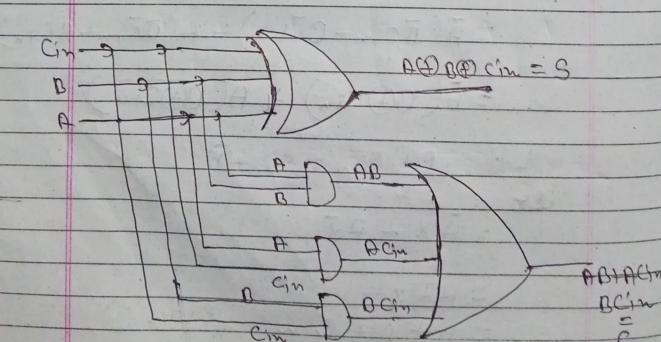
 $= \hat{A} \times + A \times \hat{A}$ 

ADBOCIN (from O)



ADCin term is twice added to simplify-

C = BCin + ABCin + ABCin + ABCin + ABCin =BCin + ACin (O+O) + AB (Ein+Cin) =BCin + ACin + AB



Sedraysismit microdectronics Page No.: 8 2. · Half Subtractal: I Half > D Cofference) Subtractor -> Bout Chouds only T.T. Bowl 50, D - XY + XY Y EX = X Bowl = XY