TUESDAY

Programmable Logic Arrays (PLA)

$F_1(A,B,C) = A\bar{B} + BC$

$F_2(A,B,C) = B + A\bar{B}$

$F_3(A,B,C) = BC + \bar{A}\bar{C}$

$F_4(A,B,C) = \bar{A}C + B\bar{C}$

→ Terms required

$A\bar{B}$

BC

B

$\bar{A}\bar{C}$

$B\bar{C}$

Quiz - 1 → 12

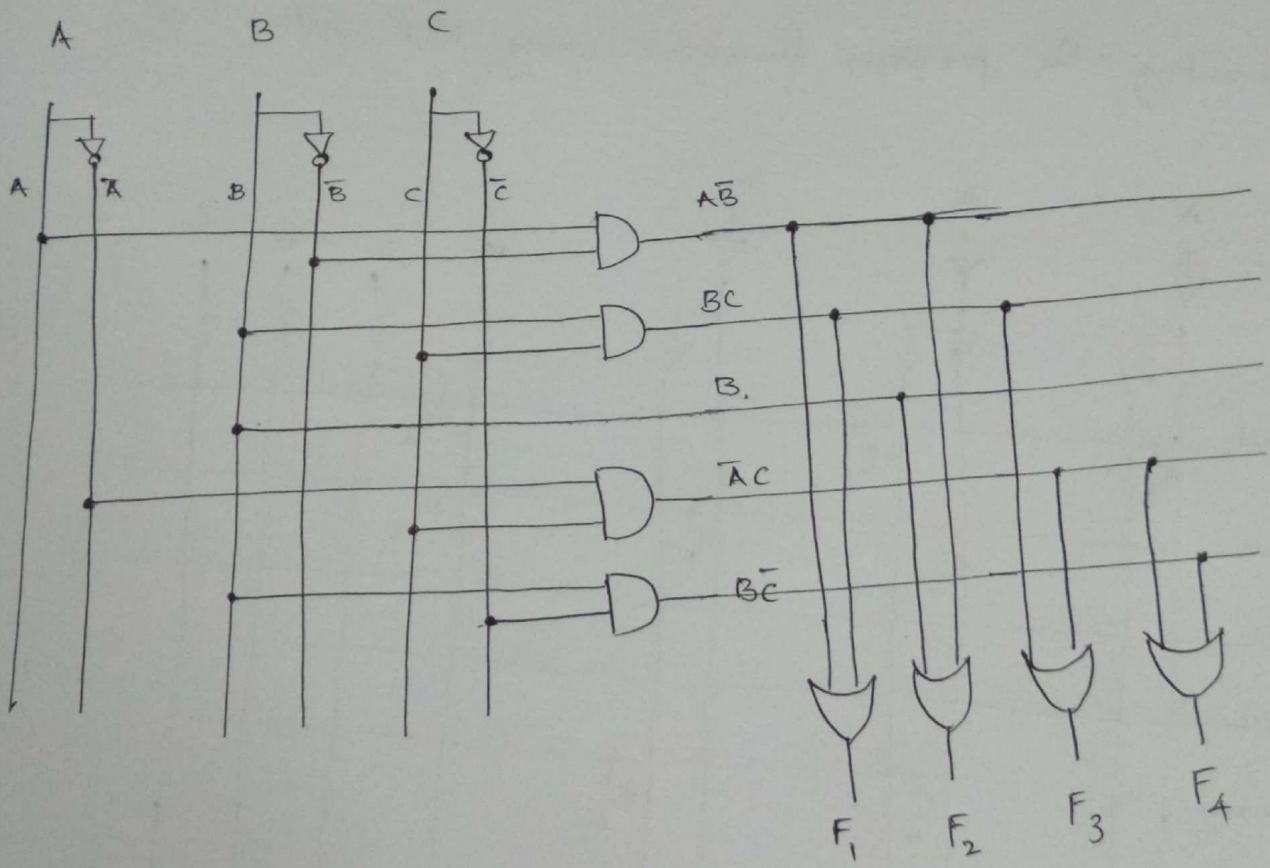
Quiz - 2 → 12

Tutorials → 11

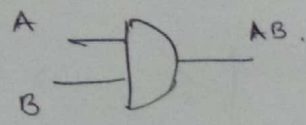
End Sem → 35

Lab → 30

100.



NOR & NAND → UNIVERSAL GATES



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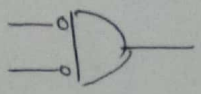
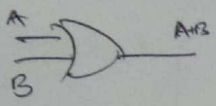


INVERT - AND (NOR)



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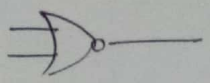
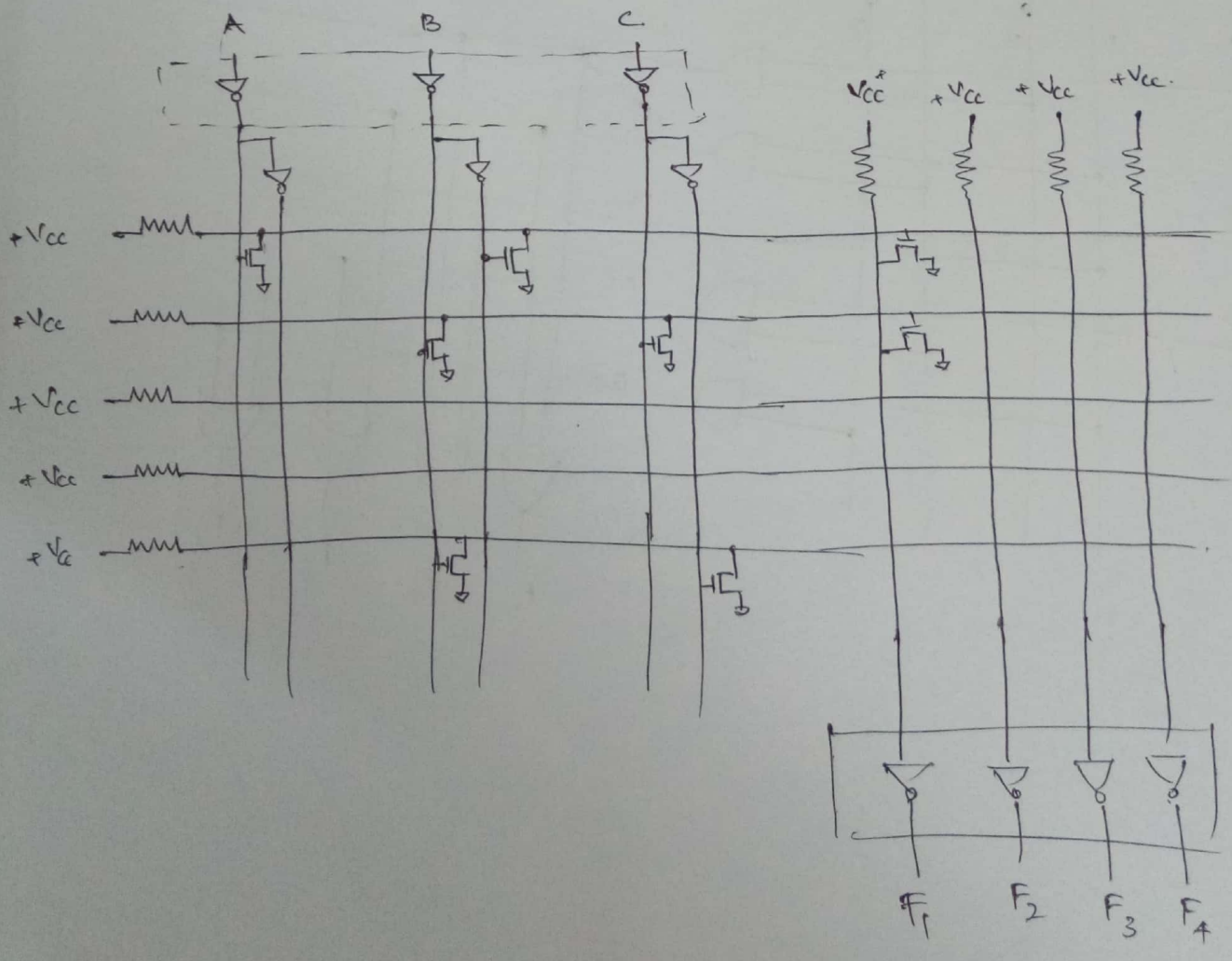


OR - INVERT (NOR)

All AND & OR GATES can be replaced by NOR,

Implementing the previous functions using NOR-gates.



Terms	A	B	C	F_1	F_2	F_3	F_4
$A\bar{B}$	1	0	–	1	1	–	–
BC	–	1	1	1	–	1	–
B	–	1	–	–	1	–	–
$\bar{A}C$.	–	1	0	–	–	1	1
$B\bar{C}$	–	1	0	–	–	–	1