National Chiao Tung University
Dept. of Computer & Information Science
Intro. to Digital Systems, Spring 1998

April 20, 1998
Handout #9
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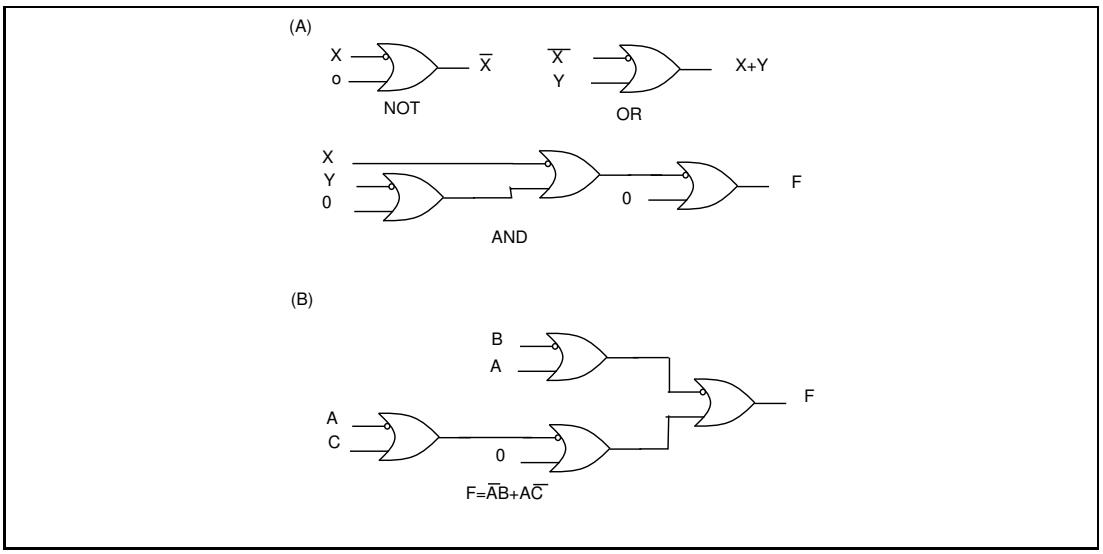
Sample Solutions to Midterm #1 (Form: A)

PartI.

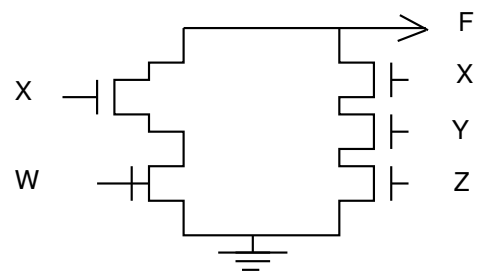
1.C 2.A 3.C 4.C 5.B 6.D 7.B 8.A 9.C 10.C .

PartII.

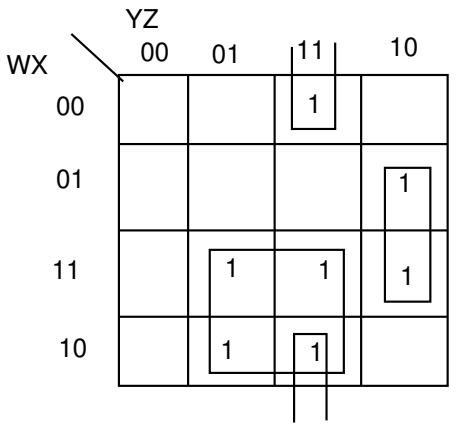


PartIII.

(A)



(B)



PartIV.

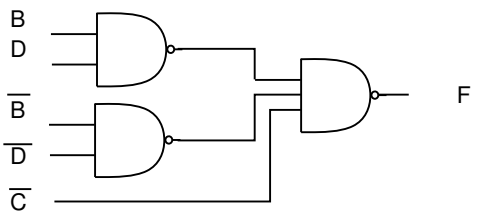
(A)

$C , BD , \overline{B}\overline{D}$

(B)

$F = C + BD + \overline{B}\overline{D}$

(C)



Part V.

$T = Z\bar{Y} + \bar{Z}Y = Y \oplus Z.$ $\quad F = \bar{X}Y + Y\bar{Z} + X\bar{Y}Z.$ $\quad G = YZ + XZ + \bar{X}\bar{Y}\bar{Z}.$