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## Digital Electronics - Assignment -1

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Q-M method (tabulation) -> sol form

S(A, B, C, D) = 2 m (2,3,6,7,10,11,12,13,14,15)

1st level of 211 Minterms avoys

· lard. - Treceping

(2,3) (1) (2,3,6,7):(4) 2-0010 G-1 (216) (4) (2,3,10,11) (1)

(2,10) (8) (2,6,10,14): (4,3)

. . 3-0011 (3,7) (4) (12,13,14,15)::(1,2) (3,7,11,15):: (4,8

(8) (8) 6 - 0110 G-2

-1010 (6,7) - (1) 12 1100 3rd level (6,14) (8)

(10,14) (4)

G-3

(12,13) (1) 7-0111

(12,14) (12) C213,6,7,10,11 11-1011

CoD 14,15): (1,418 (11)01) 13-1101

(8) 14 - 1110 (7/15) (4) (11,15)

(2) (13/15) G-4 15-1111

C14, 15) C10

Com

## 2GI19C175 GoodLuck Page No. Date P= AC Q=BC R= AB S=C. 10 12 13 15 P D 8 8 × × × X R is essential prime complicant 2,3,6,7,10,11 are not represented by R. is is taken => \$ = R+S 0 = AB+c = c+AB K-Map method -> sop & (A,B,C;D) = 2, m(0,1,4,5,8,9,10,11,12) = mo +m, + mu + ms +mg+mg+mo + mu + mn KINDP 90 017 10 00 0 01 W. 14

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Table / moy

K-Map-

g= B. (Atc)