Information Technology University, Lahore, Pakistan

Digital Logic Design Quiz# 4

Solution

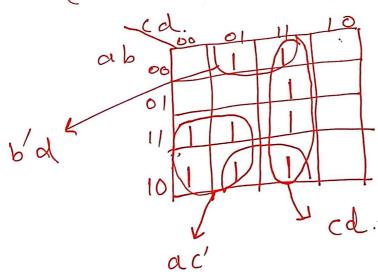
- 1. A Boolean function is given as F(a, b, c, d) = ac' + b'd + a'cd + abcd
 - (a) Write down the function F in Σ notation.

(b) Optimize the Boolean expression F using K-map.

[5] [5]

1000 9 001 1 0011 7

JF = Em (1,3,7,8,9,11,12,13,15)



(b). F(a,b,c,d) = ac' + b'd + cd.