

DLD Assignment 5(2.5,e)

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1 Boolean Expression

$$e = A.\overline{B}.\overline{C}.\overline{D} + A.B.\overline{C}.\overline{D} + \overline{A}.\overline{B}.C.\overline{D} + A.\overline{B}.C.\overline{D} + A.B.C.\overline{D} + A.\overline{B}.\overline{C}.D \quad (1)$$

2 K-Map

$CD \backslash AB$					
		00	01	11	10
00	0	0	1	1	
01	0	0	0	1	
11	X	X	X	X	
10	1	0	X	X	

Figure 1: K-Map for e using don't care condition