

Date: / /

3)

2 24 21

to

5) BCD

	A	B	C	D
m ₀	0	0	0	0
m ₁	0	0	0	1
m ₂	0	0	1	0
m ₃	0	0	1	1
m ₄	0	1	0	0
m ₅	1	0	1	1
m ₆	1	0	0	0
m ₇	1	1	0	1
m ₈	1	1	1	0
m ₉	1	1	1	1

	W	X	Y	Z
m ₀	0	0	0	0
m ₁	0	0	0	1
m ₂	0	0	1	0
m ₃	0	0	1	1
m ₄	0	1	0	0
m ₅	0	1	0	1
m ₆	0	1	1	0
m ₇	0	1	1	1
m ₈	1	0	0	0
m ₉	1	0	0	1

$$W = \sum (14, 15)$$

$$X = \sum (4, 11, 12, 13)$$

$$Y = \sum (2, 3, 12, 13)$$

$$Z = \sum (1, 3, 11, 13, 15)$$

$$d = \sum (0, 5, 6, 7, 8, 9, 10, 11)$$

W	$\bar{C}\bar{D}$	$\bar{C}D$	CD	$C\bar{D}$
$\bar{A}\bar{B}$				
$\bar{A}B$		X	X	X
AB			X	X
$A\bar{B}$	X	X		X

X	$\bar{C}\bar{D}$	$\bar{C}D$	CD	$C\bar{D}$
$\bar{A}\bar{B}$				
$\bar{A}B$		X	X	X
AB		X	X	
$A\bar{B}$	X	X	X	X

$$W = BC$$

$$X = B\bar{C} + A\bar{B}$$

Fazeel Not

Date: / /

6

Y \	$\bar{C}\bar{D}$	$\bar{C}D$	CD	$C\bar{D}$
$\bar{A}\bar{B}$			1	1
$\bar{A}B$		x	x	x
AB	1	1		
$A\bar{B}$	x	x		x

Z \	$\bar{C}\bar{D}$	$\bar{C}D$	CD	$C\bar{D}$
$\bar{A}\bar{B}$		1	1	
$\bar{A}B$	x	x	x	x
AB	1	1		
$A\bar{B}$	x	x	1	1

$$Y = A\bar{C} + \bar{A}C$$

$$Z = D$$

