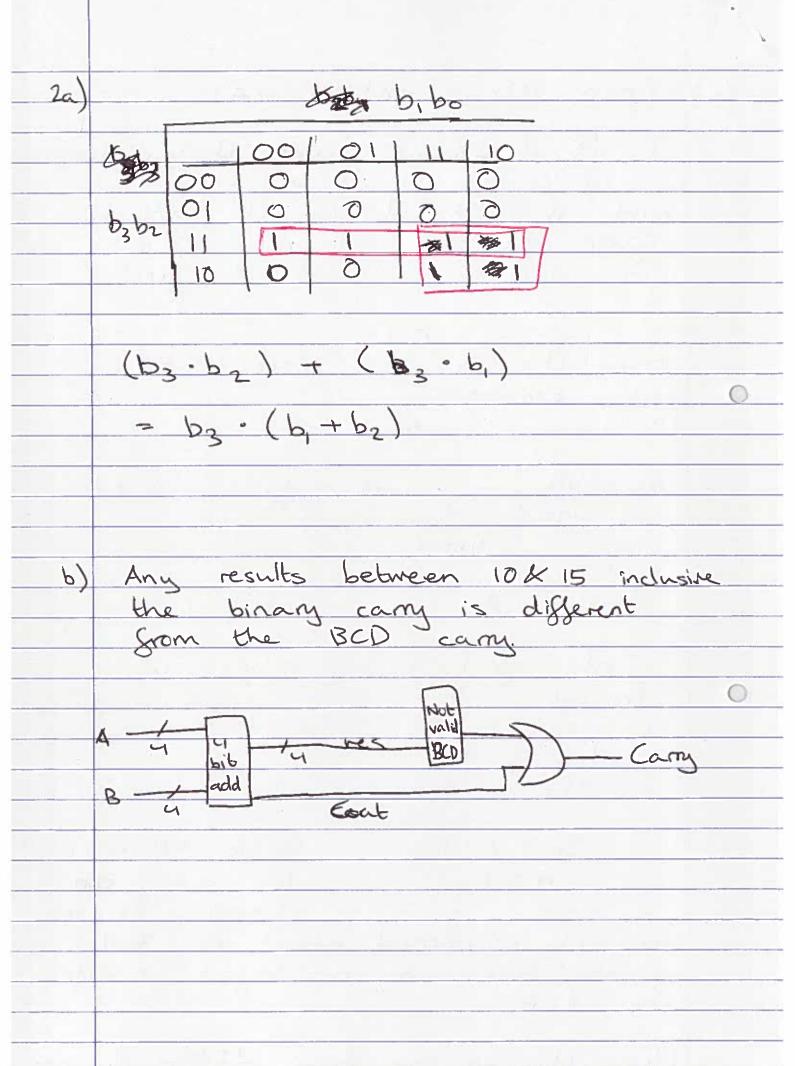


d)	IQ2 Q1 Q0	D5 D1	DO	Next State
	00 10	10		5
	0100	10	1	5
	0 1 1 1	0 0	0	0
	0 1 1 0	10	0	4
		0 0	0	0
	1110	10	0	4
	1001	10	0	4
	1011	0 0	0	0
e)	States are assigned such that number is in binary. LSB indicates whether odd or even			
	$O_1 = PO$			
	0, = 00			
	02 = Do'			
	02 = 00			
				7 10 2

.



c) 4+9=13 0100 1001+ 1101 in binary 0001 0011 in BCD 3+8 = 11 0011 1000 + 1011 in binary 0001 0001 in BCD 3+9=12 1001 1100 in binary 0001 0010 in BCD Add 0110 to the result if

