Tanjeem Azwad Zaman

1805006.

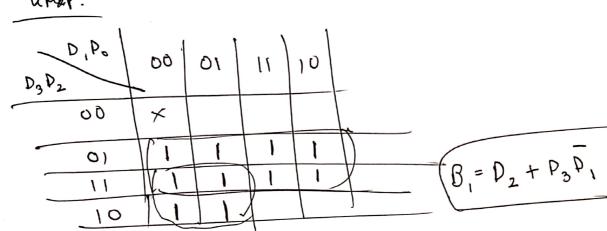Priorty: $D_2 > D_1 > D_3 > D_0$

D_3	D_2	D_1	D_0	B_1	B_0
0	0	0	1	0	0
X	0	1	X	0	1
X	1	X	X	1	0
1	0	0	X	1	1

$$B_1 = D_3 \overline{D_1} + D_2$$

$$B_0 = D_3 \overline{D_2} + D_1 \overline{D_2}$$

$$D_2 > D_1 > D_3 > D_0$$

D_3	D_2	D_1	D_0	B_r	B_0	
0	0	0	0	⊘ x	⊘ x	?
0	0	0	1	0	0	
0	0	1	0	0	1	
0	0	1	1	0	1	
0	1	0	0	1	0	
0	1	0	1	1	0	
0	1	1	0	1	0	
0	1	1	1	1	0	
1	0	0	0	1	1	
1	0	0	1	1	1	
1	0	1	0	0	1	
1	0	1	1	0	1	
1	1	0	0	1	0	
1	1	0	1	1	0	
1	1	1	0	1	0	
1	1	1	1	1	0	

B_1:   k Map:

$D_3 D_2$ \ $D_1 P_0$	00	01	11	10
00	X			
01	1	1	1	1
11	1	1	1	1
10	1	1		

$$B_1 = D_2 + P_3 \bar{P_1}$$

B_0:   K Map:

$D_3 D_2$ \ $D_1 D_0$	00	01	11	10
00			1	1
01				
11				
10	1	1	1	1

$$B_0 = D_3 \bar{D_2} + P_1 \bar{D_2}$$

$$B_0 = \bar{D_2} (D_3 + D_1)$$