Moddassin Ali Siddigui.

Questin Hel

1000		
	Deima 1	Gray Code
	0	0000 (0)
	1	0001 (1)
	2	0011 (3)
	3	0010 (2)
	. 4	0710 (6)
	5	0111 (7)
	6	0101 (5)
	7	0100 (4)
	8	1100 (c)
	7	1107 (0)
	10	(E)
	n'	1110 (E)
· jose l	12	1010 (A)
	13 12 4 41	1011 (B)
	14	1001 (9)
	15	1000 (8)
1000	0101	0011 100/
8	5	3 9
F	7	2 E
	1000	Deimo 1 0 1 2 3 4 5 6 7 8 7 10 11 12 13 14 15 1000 0101 8 8 5

Question #2

(i) 11100010 MSB LSB

MSB = 1 - (-ue)

111000 10

181- compliment 000/11/01

+1

2 compliment ovo 11110

- 30

(ii) SC7B.6

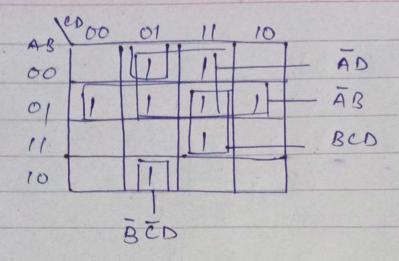
= · (5x10) + (82x10) + (7x10) + (1x16) + (6x10)

2 (5x4096) + (12x250) + (7x16) + (11x1) + (6/16)

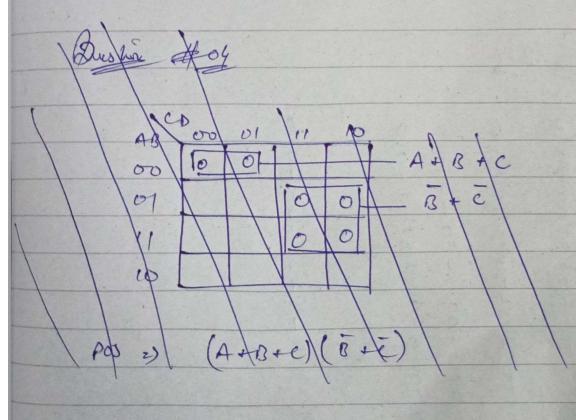
2 20480 + 3072 + 112 + 11 + 0.375

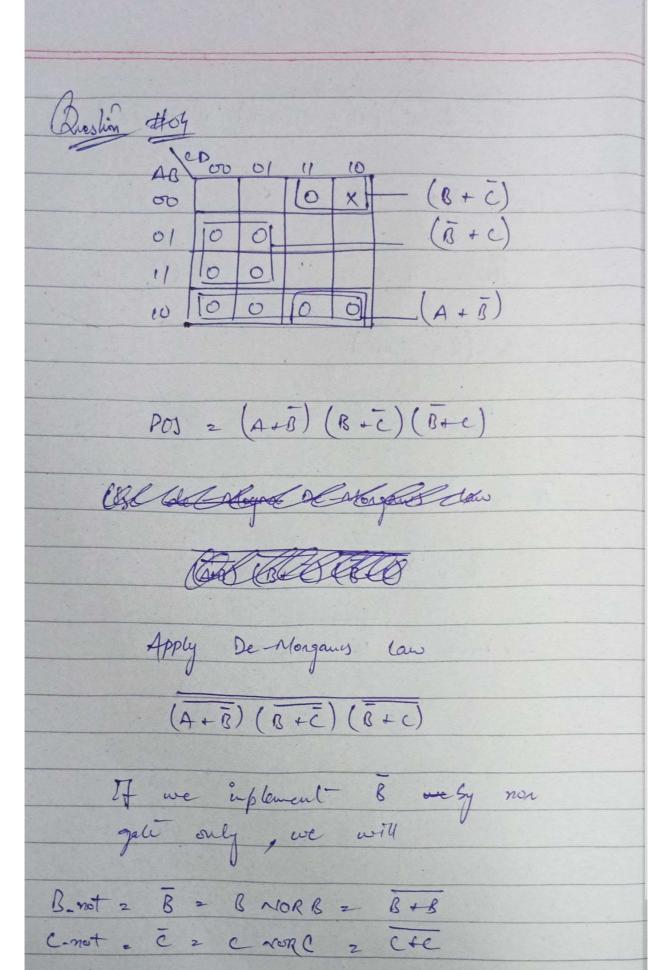
· (23C75.375)

(0101.1100 011 1011.0110)2



80B => AD+ AB + BCD + BCD





$$(\overline{A} + B - not) (\overline{B} + C - not) (\overline{B} - not + C)$$

$$\overline{1}_{1} = \overline{A} + B - not$$

$$\overline{1}_{2} = \overline{1}_{1} + \overline{1}_{1} \qquad \boxed{0}$$

$$\overline{1}_{3} = (\overline{B} + C - not)$$

$$\overline{1}_{4} = \overline{1}_{2} + \overline{1}_{3} \qquad \boxed{3}$$

$$\overline{1}_{5} = \overline{1}_{5} + \overline{1}_{5} \qquad \boxed{3}$$

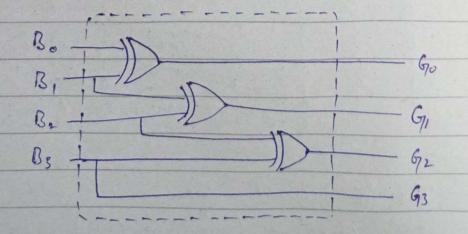
$$\overline{1}_{6} = \overline{1}_{5} + \overline{1}_{5} \qquad \boxed{3}$$

$$\overline{1}_{6} = \overline{1}_{2} + \overline{1}_{4} + \overline{1}_{6}$$

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B3	B ₂	B,	Bo		673	672	6,	Go
0	0	0	0		0	0	0	0
0	0	0	1		0	0	0	1
0	0	1	0		0	0	1	1
0	0	1	1		0	0		0
0	1	0	0	a second	0	1	1	0
0	1	0	1		0	1	1	1
0	1	1	0		0	1	0	1
0	1	1	1		.0	i	0	0
1	0	0	0		0	. 1	0	0.
1	0	0			φ	1	0	1
1	0	1	0		!	1	1	1
1	0	1	1		I	1	1	0
1	1	0	0		1	0	!	0
1	1	0	1		1	0	1	1
1	1	1	0		1	0	0	1
1	1:	1	1			0	0	0

B3 = G3 G2 2 B2 ^ B3 G2 2 B1 ^ B2 G0 2 B0 ^ B1



E3 = {(B0+B1) B2] + B3

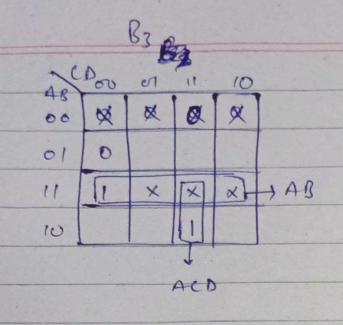
E2 = (B0+B1) 1 B2

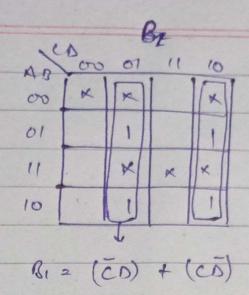
E1 =~ (B. ^ B.)

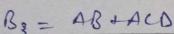
Eo 2 ~ Bo

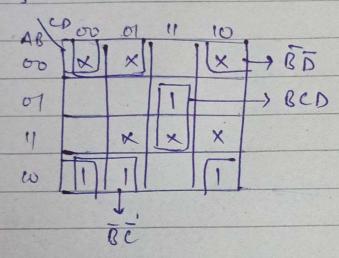
							managed report point over 1 months	A CONTRACTOR OF THE PARTY OF TH	
	B3	B ₂	Bi	Bo (80+19) B2	E ₃	E2	Ei	Éo	
	0	0	0	0 0 0	0	0	1	1	
,	0	0	0.	1 .1 0	0	1	0	0	
2	0	0	Ī	0 10	0	1	0	1	
3	0	0	1	1 1 0	0	1	1	0	
4	0	1	0	0 0 0	0	1	.1	7	
5	0	1	0	12.1.1	1	0	0	0	
C	0	1	1	011	1	0	0	1	
7	0	. 1	1	111	1	0	1	0	
8	1	0	0	000	1	0	1	1	
1	1	0	0	110	100	1-	0	0	
10		0		010		1	0		
11	· i ·	0	1	110	17	1	1	0	
12	1	1	0	000	*,	1 .	1	1	
13	1	1	0	111	,	0	0	0	
14	1	-1		011		0	0	1	
05	1		1	1 1		.0	1	0	
				CONTRACTOR OF THE PARTY OF THE					

This is circuit increment with 8 like -> (0000 -> 0011), (0001 -> 0100), (0010 -> 0001) 1 4 2 5









B2 = BE + BD + BCD

Nhow the outputs Becomes and Impact

Bo 2 Eo

B1 2 CD + CD

B2 2 BC + BD, + BCD

B3 2 AB + ACD