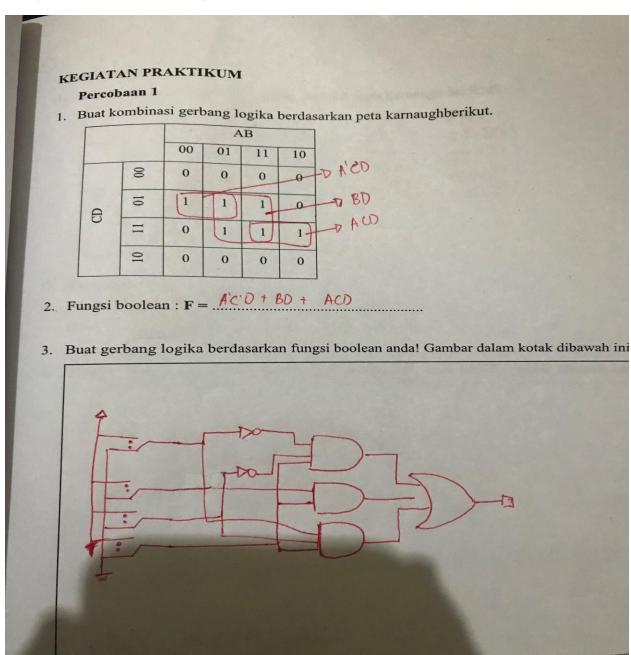
MODUL 6

PETA KARNAUGH

NAMA : BAGUS ZIZOU SATIAJI

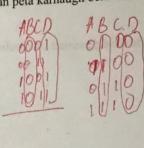
NIM/KELAS: L200180212/G



Percobaan 2

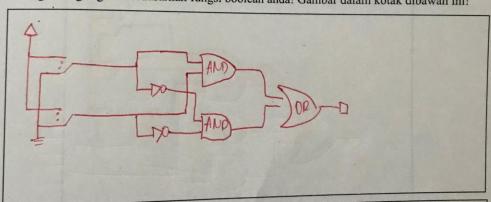
1. Buat kombinasi gerbang logika berdasarkan peta karnaugh berikut!

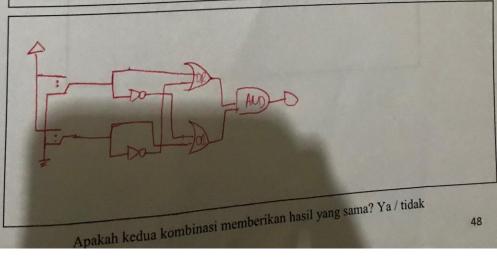
		AB					
	The state of	00 01 11 10					
8	00	1)	0	0	1		
	01	0	1	1	0		
	=	0	1	1.	0		
	10	1	0	0	1		



2. Fungsi boolean:
$$\mathbf{F} = \begin{array}{c} BD + BD + BD \\ \hline \mathbf{F} = \begin{array}{c} B+D' \\ \hline \end{array}$$
(AND-OR) SOP
$$\mathbf{F} = \begin{array}{c} B+D' \\ \hline \end{array}$$
(OR-AND) PO

3. Buat gerbang logika berdasarkan fungsi boolean anda! Gambar dalam kotak dibawah ini!

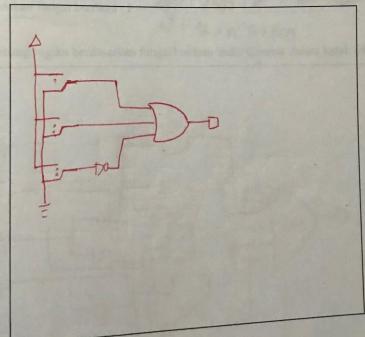




- 2. Berdasarkan fungsi boolean, isi titik-titik dalam peta karnaugh berikut!

		XY				
		00	01	11	10	
Z	0	(III	1)	11)	J.	
	-		1	1		

- 3. Sederhanakan fungsi boolean : F = 2 + 7 + ×
- 4. Buat gerbang logika berdasarkan fungsi boolean anda! Gambar dalam kotak dibawah ini!

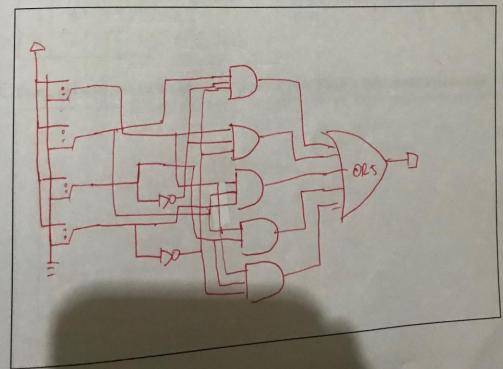


Percobaan 4

- 1. Fungsi boolean : F = AD' + ABC + ABC' + BCD + BC'D' + AB'CD'.
- 2. Berdasarkan fungsi boolean, isi titik-titik dalam peta karnaugh berikut!

			AB						
		00	00 01 11 10						
	00	Q	(1	D	.F.				
8	01	0.	0	1	.t.				
	=	0	1.	1.	.b.				
	10	0	.Q.						

- 3. Sederhanakan fungsi boolean : $F = \frac{1}{AD} + \frac{1}{AB} + \frac{1}{BCD} + \frac{1}{BCD} + \frac{1}{BCD}$
- 4. Buat gerbang logika berdasarkan fungsi boolean anda! Gambar dalam kotak dibawah ini!



Percobaan 5

1. Tabel Fungsi boolean :

	A			D	F			
	0		0	0	1			
	1	0	0	0	0			
	0	1	0	0	0			
	1	1	0	0	1			
1	0	0	1	0	1			
1	1	0	1	0	1			
I	0	1	1	0	0			
İ	1	1	1	0	0			
l	0	0	0	1	1			
ŀ	1	0	0	1	1			
H	0	1	0	1	0			
H	1	1	0	1	1			
	0	0	1	1				
					1			
	1	0	1	1	0			

0	1	1	1	1
1	1	1	1	0

2. Berdasarkantabel. Isi titik-titik dalam karnaugh map berikut!

		AB						
		00	00 01 11 10					
,	00	1		1	()			
CD	10				1)			
	=							
	10	U			[1			

4. Buat gerbang logika berdasarkan fungsi boolean anda! Gambar dalam kotak dibawah ini!

