

Kelompok 2 :

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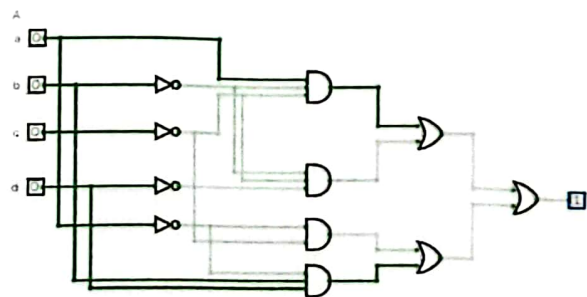
Tugas K-Map 7 Segment

Angka	A	B	C	D	a	b	c	d	e	f	g	F
0	0	0	0	0	1	1	1	1	1	1	0	$\bar{A}\bar{B}\bar{C}\bar{D}$
1	0	0	0	1	0	1	1	0	0	0	0	$\bar{A}\bar{B}\bar{C}D$
2	0	0	1	0	1	1	0	1	1	0	1	$\bar{A}\bar{B}C\bar{D}$
3	0	0	1	1	1	1	1	1	0	0	1	$\bar{A}\bar{B}CD$
4	0	1	0	0	0	1	1	0	0	1	1	$\bar{A}B\bar{C}\bar{D}$
5	0	1	0	1	1	0	1	1	0	1	1	$\bar{A}B\bar{C}D$
6	0	1	1	0	1	0	1	1	1	1	1	$\bar{A}BC\bar{D}$
7	0	1	1	1	1	1	1	0	0	0	0	$\bar{A}BCD$
8	1	0	0	0	1	1	1	1	1	1	1	$AB\bar{C}\bar{D}$
9	1	0	0	1	1	1	1	1	0	1	1	$AB\bar{C}D$
10	1	0	1	0	0	0	0	0	0	0	1	$AB\bar{C}\bar{D}$
11	1	0	1	1	0	0	0	0	0	0	1	$AB\bar{C}D$
12	1	1	0	0	0	0	0	0	0	0	1	$ABC\bar{D}$
13	1	1	0	1	0	0	0	0	0	0	1	$ABC\bar{D}$
14	1	1	1	0	0	0	0	0	0	0	1	$ABCD$
15	1	1	1	1	0	0	0	0	0	0	1	$ABCD$

a)

	$\bar{C}\bar{D}$	$\bar{C}D$	CD	$C\bar{D}$
$\bar{A}\bar{B}$	1	0	1	1
$\bar{A}B$	0	1	1	1
AB	0	0	0	0
$A\bar{B}$	1	1	0	0

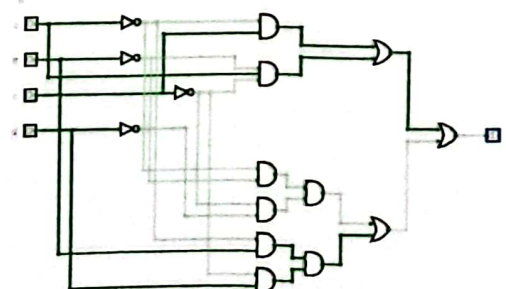
$$F = \bar{A}\bar{C} + \bar{A}BD + A\bar{B}\bar{C} + \bar{B}\bar{C}\bar{D}$$



b)

	$\bar{C}\bar{D}$	$\bar{C}D$	CD	$C\bar{D}$
$\bar{A}\bar{B}$	1	1	1	1
$\bar{A}B$	1	0	1	0
AB	0	0	0	0
$A\bar{B}$	1	1	0	0

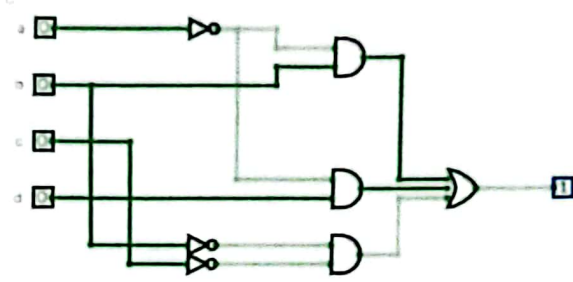
$$F = \bar{A}\bar{B} + \bar{A}CD + A\bar{C}\bar{D} + \bar{B}\bar{C}$$



c)

	$\bar{C}\bar{D}$	$\bar{C}D$	CD	$C\bar{D}$
$\bar{A}\bar{B}$	1	1	1	0
$\bar{A}B$	1	1	1	1
AB	0	0	0	0
$A\bar{B}$	1	1	0	0

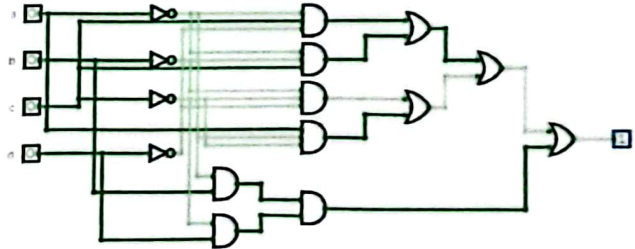
$$F = \bar{A}B + \bar{B}\bar{C} + \bar{A}D$$



d)

	$\bar{C}\bar{D}$	$\bar{C}D$	CD	$C\bar{D}$
$\bar{A}\bar{B}$	1	0	1	1
$\bar{A}B$	0	1	0	1
AB	0	0	0	0
$A\bar{B}$	1	1	0	0

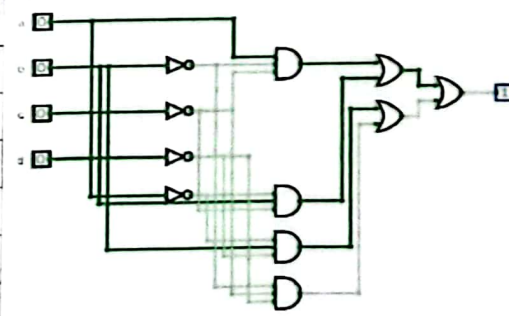
$$F = \bar{A}\bar{B}\bar{C} + \bar{B}\bar{C}\bar{D} + \bar{A}B\bar{C} + \bar{A}C\bar{D} + \bar{A}\bar{B}C\bar{D}$$



f)

	$\bar{C}\bar{D}$	$\bar{C}D$	CD	$C\bar{D}$
$\bar{A}\bar{B}$	1	0	0	0
$\bar{A}B$	1	1	0	1
AB	0	0	0	0
$A\bar{B}$	1	1	0	0

$$F = \bar{A}B\bar{C} + \bar{A}B\bar{C} + \bar{A}B\bar{D} + \bar{B}\bar{C}\bar{D}$$



g)

	$\bar{C}\bar{D}$	$\bar{C}D$	CD	$C\bar{D}$
$\bar{A}\bar{B}$	0	0	1	1
$\bar{A}B$	1	1	0	1
AB	1	1	1	1
$A\bar{B}$	1	1	1	1

$$F = A + B\bar{C} + \bar{B}C + C\bar{D}$$

