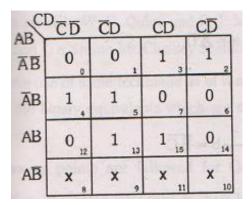
DON't Care condition

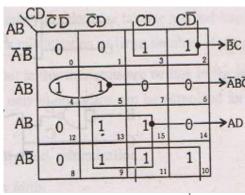
- In few logic circuits, output is not given or specified for certain combination of input.
- In such case output level is not defined, it can 'high' or 'low' either
 '1' or '0'
- These output are denoted are 'd' or 'x'or 'Φ

Example:

Minimize the flowing function using K – map. Right truth table and implementing the circuit .

$$f(A, B, C, D, E) = \sum m(2, 4, 5, 13, 15) + \sum d(8, 9, 10, 11)$$





Example:

Minimize the flowing function using K – map. Right truth table and implementing the circuit using NAND gate only.

$$f(A, B, C, D, E) = \sum m(2, 4, 5, 13, 15) + \sum d(8, 9, 10, 11)$$

26-09-2015

Minimization of product of Sum from using K map

Decimal Sumber	Variables			Maxterms	Maxterm
	A	В	c		Designation
0	0	0	0	A+B+C	M _o
1	0	0	1	A+B+ C	M ₁
2	0	1	0	$A + \overline{B} + C$	M ₂
3	0	1	18	$A + \overline{B} + \overline{C}$	M ₃
4	1	0	0	$\overline{A} + B + C$	M ₄
5	1	0	1	$\overline{A} + B + \overline{C}$	M ₅
6 made	1	1	0	$\overline{A} + \overline{B} + C$	M ₆
7	1	1	1	$\overline{A} + \overline{B} + \overline{C}$	M ₇

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