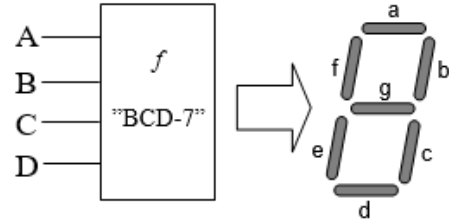


5

5.1)

decimal cifra	A	B	C	D	a	b	c	d	e	f	g
0	0	0	0	0	1	1	1	1	1	1	0
1	0	0	0	1	0	1	1	0	0	0	0
2	0	0	1	0	1	1	0	1	1	0	1
3	0	0	1	1	1	1	1	1	0	0	1
4	0	1	0	0	0	1	1	0	0	1	1
5	0	1	0	1	1	0	1	1	0	1	1
6	0	1	1	0	0	0	1	1	1	1	1
7	0	1	1	1	1	1	1	0	0	0	0
8	1	0	0	0	1	1	1	1	1	1	1
9	1	0	0	1	1	1	1	0	0	1	1
∅	1	0	1	0	-	-	-	-	-	-	-
∅	1	0	1	1	-	-	-	-	-	-	-
∅	1	1	0	0	-	-	-	-	-	-	-
∅	1	1	0	1	-	-	-	-	-	-	-
∅	1	1	1	0	-	-	-	-	-	-	-
∅	1	1	1	1	-	-	-	-	-	-	-



CD

AB

$q = (A+B+C+\bar{D})(\bar{B}+D)$

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

CD

AB

$b = \bar{B} + CD + \bar{C}\bar{D}$

$b = (\bar{B} + C + \bar{D})(\bar{B} + C + D)$

CD

AB

$c = \bar{B} + \bar{C} + D$

CD

AB

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

$d = (B+C+D)(B+C+\bar{D})(\bar{B}+\bar{C}+\bar{D})$

$d = \bar{A}(B \oplus C \oplus D) + \bar{B}\bar{D}$

CD

AB

$e = \bar{B}\bar{D} + C\bar{D} = \bar{D}(\bar{B} + C)$

$e = \bar{D}(\bar{B} + \bar{C}) + \bar{D}\bar{B}C$

CD

AB

$f = A + B\bar{D} + B\bar{C} + \bar{C}\bar{D} = A + B(\bar{D} + \bar{C}) + \bar{C}\bar{D}$

$f = (A+B+\bar{D})(A+B+\bar{C})(\bar{C}+\bar{D})$

CD

AB

$g = A + B\bar{C} + \bar{B}C + C\bar{D} = A + B \oplus C + C\bar{D}$

$g = (A+B+C)(\bar{B}+\bar{C}+\bar{D}) = (A+B+C)(BCD)$