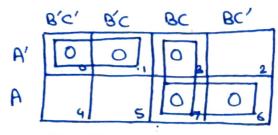
Q)
$$F = \pi(0,1,3,6,7)$$
 [POS]



. 8 Pairs

Thus Simplified

$$= \rangle (A'+B')(B+C)(A+B)$$

Since its POS,

$$3,7 \Rightarrow (A'+B+C)(A+B+C) = (B+C)$$

$$\Theta$$
) $F = \sum_{m} (0,1,3,5,6,9,1,13,15)$

Prime implicants are the

to nestoridma taged

units aka quado exchesen

(188 -> Least Eignificant 687) (MSB -> Most significant Bit) four variables. BING wax unupa M < 7 3 var) is 15.

16 BOX K-Map

3 pueds

1,5,13,9 -> C'D 13,15,9,11 - AD

, Essential (Largest Comb.) Implicants

9,11,1,3 -> B'D 2 Pais

O,1 -> A'B'C'

7 Syndmor 6 → A'BCD'

12,13 -> ABC'

F= ABCD + ABC + ABC + CD+AD+BD

10

(a)
$$F = \sum_{m} (2,3,5,7,9,11,12,13,14,15)$$

Aryaman

	c'D'	C ' D	CD	CD
A'B'	0	1	1	12
A'B	4	1 5	1,	6
AB	12	13	1	1)14
AB'	8	19	当人	. : IO

1 Redundant Quad

3,7,15,11

Removing / Not involving
it will usep number of
terms some

- · NAVD-NAND logic -> 7 gates (Better : 30P form)
- · NOR-NOR logit 13 gatos

	CD	CD	CD	CD
A'O'		1	1 3	1 2
A'B	1,	S	1,	1/6
ĄB		1	; ;	1,14
AB	. 12	13		1
HB	8	9	11	10

- · NAND NAND Logic -> 10 gates (Better)
- · NDR-NOR Legic 12 gales