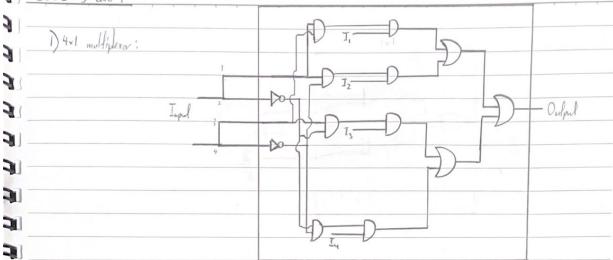


F

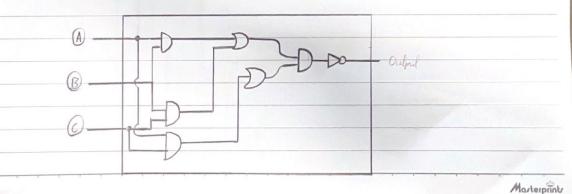
W

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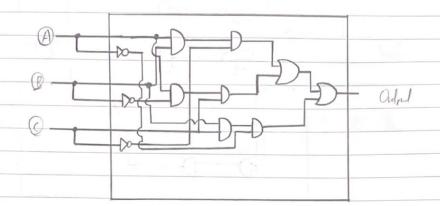


2)	χ_{1}	$\chi_{_{1}}$	Xo	Fi	F ₂	F ₃	F4	all the second
	0	0	0	0	0	1	0	
	0	0	1	0	1	- 1	0	
	0	1	0	0	1	1	D	
	0	1	1	1	0	1	0	14 15 11
	1	0	0	0	1	0	1	
	(0	1	1	0	0	1	
	1	1	0	1	0	0	1	
	1	1)	0	1	0	1	111111111111111111111111111111111111111

3) E= ((A·B)+(A·C)+(B·C)). (A·B·C)



(= (A.B.T) + (A.B.C) + (A.B.C)



E= (A.B.C) + (A.B.C) + (A.B.C) seems to be more efficient among the two terms.

4)
$$E = ((A \cdot B) + (A \cdot C) + (B \cdot C)) \cdot (\overline{A \cdot B \cdot C}) = (A \cdot B) \cdot (\overline{A} + \overline{B} + \overline{C}) + (A \cdot C) \cdot (\overline{A} + \overline{B} + \overline{C}) + (B \cdot C) \cdot (\overline{A} + \overline{B} + \overline{C})$$

$$= (A \cdot B) \cdot (\overline{C}) + (A \cdot C) \cdot (\overline{R}) + (B \cdot C) \cdot (\overline{A}) = (A \cdot B \cdot \overline{C}) + (A \cdot \overline{R} \cdot C) + (\overline{A} \cdot B \cdot C)$$

5)
$$XOR = (A+B) \cdot (\overline{A} \cdot \overline{B}) = (A+B) \cdot (\overline{A}+\overline{B}) = (A+B) \cdot \overline{A} + (A+B) \cdot \overline{B}$$

=
$$(\bar{A} \cdot \bar{B}) + (\bar{A} \cdot \bar{B}) = (\bar{A} \cdot \bar{B}) + (\bar{A} \cdot \bar{B})$$

6) (A) X)		А	13	C	ÁBBEC
(B) 72		0	0	0	0
(1) X3	3xol	3 0	0		
		0	1	0	
		0	1	1	0
			0	0	
E= A.B.T	1	0	1	0	
+ A.B.	1	1	0	0	
		1	1	1	