Intro to Computer Science:

Sheet#08

monther a

F( $\chi_{4}, \chi_{3}, \chi_{2}, \chi_{1}, \chi_{2}$ ) =  $m_{16}' + m_{18}' + m_{24}' + m_{19}' + m_{$ 

							40.0	IN
<u>a)</u>	minterm	pattern			minterns pa	allems	22/52.24	m
				1	00	0-1	115 - 1X	
	m,	00001	or n-d		m1,5	00-01	F . 4	n = 1
	Mg	01000	e de maria	)	$m_{1,q}$	0-001	21. 7	n .
	m16	10000	A 18 1 1		m 8,9	0100-	10 10	<u>n &gt;</u>
	ms	00101	**************************************		m 8,10	010-0	32 .56	_ < <u>n</u>
	mg	01001		/	m 8, 24	11000	33.0	
	mio	01010			m <sub>16/18</sub>	100-0	90.00	n
	M18	10010			M 16, 24	1-000		
113za	M24	11000	1 mu 10	10)	ms , 7	001-1		
	M <sub>7</sub>	00111	777.24		ms, 13	0 - 101		
	mil	01011			mg/11	010-1		42.3M
	m <sub>13</sub>	01101	12.24		Mq, 13	01-01		
124	m29	11101		1	M10,11	0101-		11100 10
			11 4 16		M13/29	-1101		
	N ,	IN		1	23/0.1			1 40 som

Date	
Essential	Pres and
Estruia	Trime
Ms, F	m <sub>8,24</sub>
m <sub>13</sub> , 29	
m,,9,5	
M16,18	
m 8,9	10,11
Chansim	m <sub>8</sub> ,24:
- Crossing	7118,24
F(24,2	$(3, \mathcal{U}_{2}, \mathcal{X}_{0}) = (\neg \mathcal{U}_{4} \wedge \neg \mathcal{U}_{3} \wedge \mathcal{U}_{2} \wedge \mathcal{U}_{0}) \vee (\mathcal{U}_{3} \wedge \mathcal{U}_{2} \wedge \neg \mathcal{U}_{1} \wedge \mathcal{U}_{0})$
	$(\neg u_1, \cap \neg u_1, \cap u_0) \vee (u_1 \cap \neg u_2 \cap \neg u_2 \cap \neg u_0)$
)	$(\neg 24 \cap 23 \cap \neg 2) \vee (23 \cap \neg 21 \cap $
	$\rightarrow$ Cost = 21
)	
Choosing	M. a. a. i
	m <sub>16,24</sub> :
F(24,2	(3, 22, 24, 20) = (724 N 723 N 22 N 20) V (23 N 22 N 72, N 20)
	$(724 \Lambda71, \Lambda 10) V (24 \Lambda 723 \Lambda 72, \Lambda 720)$
	$(724123172) \vee (2417221721720)$
	$\rightarrow \cot = 21$
	7 (OSL - d')