Question 1

pattern	Minterms	Pattern	
0 m 000-	m, m3	-00-	
m2 - 0 10	m ₂	-010	
(a) m3 1 0 0 - 4	COM .		
3 my 0 1 1 0	Mu	0110	

Prime Implicants:

m, m3, m2, m4

		m,	m	m3	my
1	wiw3	/		1	
1	W ₂		1		
<	my				1

Essential prime implicants: m, m, , m, , m,

Total operations: 8

initial operations: 12

Questio	n 2								P +wamin	
				two compliment				Checking		
	ps	ь,	6	02	0,	00	m ₃	my	ms	
mo	0	0	0	0	0	0	011	100	101	
w,	0	6	n day	N. C.	P	1	100	911	010	
m ₂	0	1	D	1	1	0	101	0100	011	
m ₃	0	,	1	1	0	10	1914B 8m	w ₂		
my	,	0	6	1	0	0	M6	MATTI		
m ₅	1	0	(0	1	6	001	000		
me	,	1	0	0	1	0	010	. 001		
m	1	1	1	0	0	1	10			
	,			-			1			
19644 V	SK/BL									

ev

SI: anakaran lattini

estion 3

Expe exal = Interpretation > Bxxp/>Book/

eval - F = False

eval - T = true

eval (Vax X) = i X

type eval = Interpretation -> BEXP -> Bool

eval_F = False

eval - T = True

eval i (Varx) = i X

eval i (Note) = not (eval ie)

eval i (e1 n e2) = eval i e1 &R eval i e2

eval i (el v ez) = eval i el 11 eval i ez