DLD Section 2E2 LAB

Find Marchamo afrom the following minterms:

(1). F(x, y, z) = Em(1/3, 6/7) F(x, y, z) = Em(0, 2, 4, 5) F(x, y, z) = Tm(0, 2, 4, 6) F(x, y, z) = Em(0, 1, 2, 4, 6) F(x, y, z) = Em(0, 1, 2, 4, 6)

 $F(x, y, 2) = \xi(3, 5)$ F(x, y, 2) = TM(3, 5)

Liii).

F(A,B,C) = 2m(0,3,4,5,7) F(A,B,C) = 2m(1,6)F(A,B,C) = TTm(1,6)

Q2.

F1CA, B, C) = 2m(0, 2, 3, 4, 6)

F 1 CA, B, C) = 2 m (0,2,3,4,6)

a,	Find	truth	table

A	ß	د	Incluse	SOP	output of function
O	٥	O	0	A.B.c	1
0	0	1	I	Á.B.C	0
		, 	1	Ā B Č	1
0	l	O	2	A BC	1
٥	l	I	3		
	O ₁	٥	4	ABC	1
l	Ó	. 1	5	BPABC	0
				ABC	1
1	5 (0	L	A n	0
١	,	1 1	7	ABC	ŭ

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Find minimal SOP expression for boolean Q2Cb). function Fl. FFE Em (0,2,3,4,6) Fi = Mo + m2 + m2 + m4 +m6 = ABC + XYZ + XYZ + XYZ + XYZ = ABC + ABC + ABC + ABE + ABE = ABC+ABC +ABC + ABC = BE(A+A) + BE(A+A) + ABC = RZ + BZ + FBC = E(B+B) + ABC = E + ABC (Ans) 22cc). Not done Ic type till yet so skipped. (U3 ca) F1(AB, G) = 5m(0,2,4,6,7,8,10,12,14,150) find the touth touth a 2 cc). Fill the following table Gates per 1 Required I cotype Required No-cef Gates No-cef

	(03 (9).	Fil	A, B,	(,D) = Em (0,2	,4,6,7,8,10,12,14,	(5)
A O	6	د	0	Indesc	So p à B CO	cent put
0	0	0	1	\ 2	ĀB C D	0
0	0	1	0	3	ĀĒCD	0
O	1	0	0	Ч	ABCD	
0	1	0	1	27	ABCD	0
0	1	J	O	G	ABCD	l
O	1	1	1	7	ABCD	\
1	0	0	0	8	ARCD	(
(0	0	1	9	ABED	0
\	0	1	0	10	ABCD	\
1	0	1	1.	(1)	ABCD	0
	1			12	ABCD	1
1	١	ව	(13	ABZP	Ö
	1	1	0	14	ABCD)
	1				ABCP)

Final the minimal SOP Expression for Boolean fenction Fl. 03CP). F1 = mo + m2 + my + m6 + m7 + mg + m10 + m12 + m14 +m15 = ABCD + ABCD. = ASCD+ ABCD+ ABCD+ FBCD + ABZB + FBCD ECD(A+A) + BCD (A+A) + BCD (A+A) + BCD (A+A) + BCD(A+A) BOD+ BOD+BOD +BLD+BCD = BZB + BZB +BCD +BCD + BCD COC (B+B) +CD (B+B) +BCD = TO + CD +BCD D + B CD Cfinel And. IC Type Paymel No. of Gets property of G (c). NOT

Total no ICS = 3

