Aisha Muhammad Nawaz 20L-0921 DLD SECTION 2E2 BSCS LAB MANUALOST

Question 1 F 2 = [(A.(B+C)) + (A+C)]. C (Truth Table) B_{i} A B CI A' F 2 0 0 0 0 0 0 0 \bigcirc 0 0 1 1 0 0 0 0 0 0 1. 0 0 0 0 ci). F(x, 1/2) = 2m (1/3,5/7) = £m(0,2,4,6,8,9,10,11,12,13,14,15) F(x, Y/2) = TTM (0,2,4,6,8,9,10,11,12,13,14,15) cit) (ii). F(X,N,Z) = Em (0,2,4,6,7) = (x, 1, 1, 2) = Tim(1, 3, 5, 8, 9, 10, 11, 12, 13, 14, 15)(111) F(A,B,C) = Em (0,1,3,4,5,7) = Em(2, 6, 8, 9, 10, 11,12,13, 14, 19) F(A,B,C)= TTM (2,6,8,9,10,11,12,13,14,15)

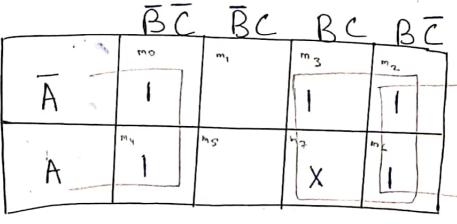
Scanned with CamScanner

Question 3 FA (A, B, C) = Em (0,2/3,4,6) + d (7)

a) TrutH Table

Index	A .	В -		Man term Boolean	F	
0	0	0	01/	A.B.C	1	
l	0	0	1	A. B. C	0	
2 .	0	1	0	A. B. C	\	
3	O	1	1	A.B.C	1	
4	l	0	0	A. B. C	1	
5	1	0	(A . B . C ~ .	0	
٤	Ţ	Ţ	0	$A \cdot B \cdot \overline{C}$	1	
7	_ \	1	1	A. B.'C	X	
			•	1		

p>	
K-ma	ps



$$= \overline{C} + B$$

Question 4:

F1(A,B, C,D) = \(\int (0,2,4,6,7,8,10,12,14,15) \) + d(3,11)

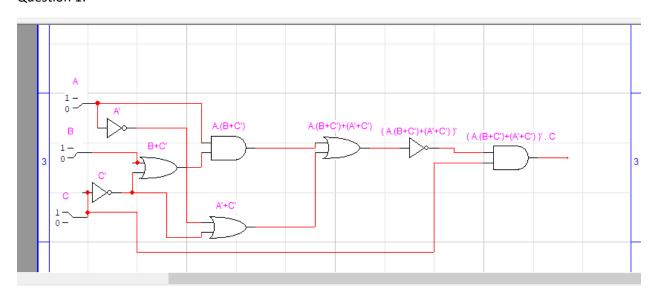
(a). Truth Table

•		. 4016				
Ind	بد	A		- D:	Boolean Expression A. B. C.	F
2		0	0 0	1 1	Ā·Ē·c.	D . O
3		0	0 1	0	A-B-c-D	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		0	0.1	1	A.B.c.	
5		0	1 0	0	Ā. B. C. Ē	
6		0	10	1	Ā. B.C.D) 0
7		D	1 1	0	A.B.c.D	1
8	7	0	1 1)	A.B.C.D	
9		1	0 0	0	$A \cdot \overline{B} \cdot \overline{C} \cdot \overline{D}$	
10	-	1	0 0	1	A. B. C. D	0
	7		0 1 0		A.B.c.D	1
12			0 1 1		A.B.C.D	X
1.3		*	1 D C)	A.B.Z.D	
-14	11 11		0 1		A.B.Z.D	0
-		1 1	1 0		A.B.C.D	
18	1	1 1	11/1	ŀ	1. B. C. D	

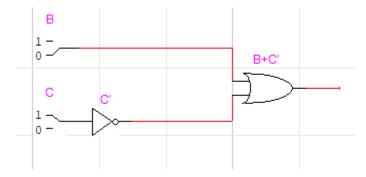
			•		
		CO	-co	, CD	$c\bar{D}$
	ĀB	1	1 1	X	72
	A B	m's]	m _s	1 .	74
	AB	m,2 1	m/3	WIE	miy.
· ·	A B	m _g	ma .	×	

$$F_1 = C + \overline{D}$$

Question 1:



Question 3(b):



Question 4(b):

