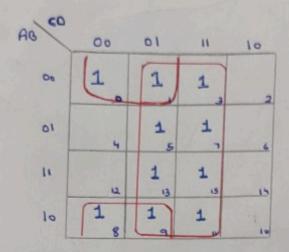
Name: Rahi Aganwal Enroll No.: 9921103145

) F(A, B, C, D) = Em(0,1,3,5,7,8,9,11,13,15)



2)

By 2's complement method

2's complement of B = 11101010 (In 8 bit Formut)

A = 00110110

Discording the end conny

A-B = 100000

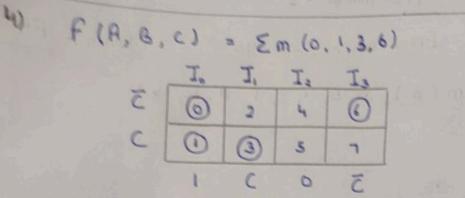
By B's complement

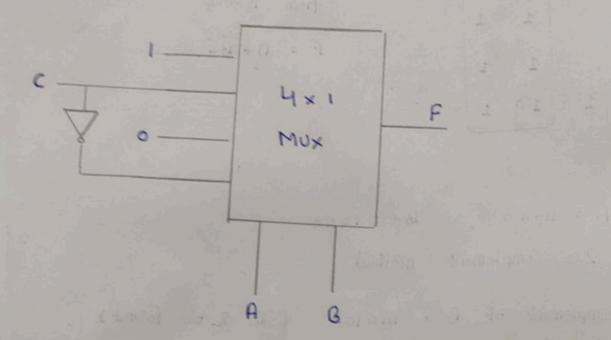
1's complement of B = 101001

A+B

Add the congry

A-B = 100000





5) To cheate state table, we need state equation and these can be easily obtained from the given figure

Donado	Agazwal 9921103145					F4	-
A A	Agareval	TOPOL	Next s		output	Ta	To
0	В	×	A+	G+	y	-	-
	0	0	0	0	0	0	0
0	D	1	0	1	0	0	1
0	- 1	0	D	1	0	0	0
0	1	1	1	0	6	. 1	1
1	0	0	1	0	0	0	0
1	0	1	1	1	1	0	1
	1	0	1	1	19.10	0	0
	1	1	0	0	0	1	- 1
Clis -	1	1		-			+
Clik —							