Date
30/09/21

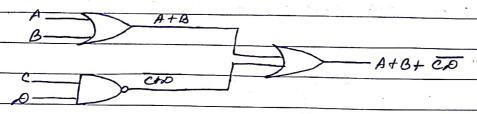
Q.1) Doaw the logic diagram and touth table of the

@X = A+ B+ CD

Sol": Truth table:

			1	· · · · ·	-	
<b>A</b>	B		2	CD	CD	A+B+CD
A	15	0	0	0	1	1
0	0	0	1	0	1	1
0				1		1 .
0	0	1	0	0	1	
0	0	1	1	1	0	
. 0	1. 1.	0	0	0	1	1
0	1	0	1	0	1	4
0	1 1	1	0	0	1	1
0	1	1	1	1	0	2.
2	0	0	0	0	1	1
	0	0	1	0	1	2
1	1	1	0	0	1	1
	0	1	1	1	0	1
1	0	0	0	. 0	1	1
1	1		1	0	1	4
1	1	0			1	1
1	1	1	6	0	1	
		1	1	1	0	1 1
1	1 1	1	<u></u>			
	_					

Logic diagram :-



Boln: Truth table :-

A	B	c	ē	AC	AB	AB+ AC	f= AB+AC
 0	0	0	1	0	0	0	1
0	0	1	0	6	0	6	1
 0	1	0	1	0	0	0	1
0	1	1	0	0	0	0	1
1	0	0	1	1	6	1	0
1	0	1	0	0	0	6	1
1	1	0	1	2	1	1	0
1	1	1	0	0	1	1	0
						[	

Logic Diagram:

