or. A bulb in a staiocase has two switches, one switch being at the ground floor and the other one at the first floor. The bulb can be turned on and can be turned OFF by and one of the switches irrespective of the stake of the other switch.

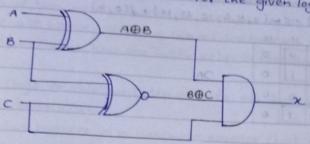
a. Draw the touth table for above situation. 0 1 0 1 0 0 1

	_	_		POLOTE 7	08 01001	10 51+11	Cut in h			
-	A	B	Output	0	1.	0	42107	0		
-	0	0	0	1	0					
	0	1	,							
1	1	0	1							
3/6	1	1	0	lue Louis	least to	0 3/00	利料			

der Landlage to allest will be displayed al Mudleds scottes 6. Draw the most suitable logic circuit / gate for this. 30 sao (so) Attomber 30 super a svori to san desla

בבית לולוסת וג מופל. . . .

as What is the boolean expression for the given logic ciocuit below.



(A+B). C

of The boolean function Y=AB+CD is to be realized using only 2 input NAND gates.

a. Extract the boolean Function for NAND gates using the above formula.

b. Draw the logic circuit for the extracted boolean function reser (FLAGE) play to the CPU on

04. Complete the following Kamaugh map. According to the values found in the given touth table.

A BILL CAD BOUTH tosted and tosteres exclusive assembly to 0 0 0 0 0 0 0 1 1 1 M5= A.B.C.D

0 0 0 1 1M=AB.C.D 1 1 0 0

0 0 1 10 0 0 0 1 1 1 Mb A B. C.D

o o setter the oil statistical set to o o queles to had

0 1 0 1 1Ma=A.B.C.D CO 00 01 11 10 0 1 1 0 0

C.D 00

1 A.B.C.D 1A.B.C.D 0 0 0 0

1 0 0 1 1Ma=A.B.C.D

0 1 0 1M4=A.B.C.D F= (A.C.D)+(A.B.C)+(ED)

I A.B.C.D 1 A.B.C.D 1 A 8. C.D I A.B.C.D

A.C. D

A.B.C

