R)

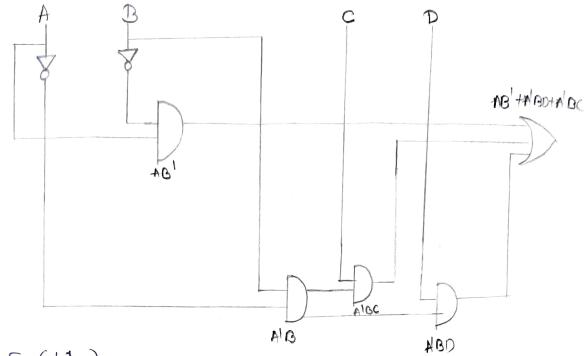
	1	-			•
_	A	B	C	D	F
_	0	0	0	0	0
_	0	0	0	1	0
_	0	0	1	0	0
	0	0	1	1	0
	Ô		0	0	O
	0		0		
_	0		)	0	1
	B	1		1	
		0	Ô	0	
		0	0	1	
		0		0	
		0	1		
			$\bigcirc$	O	O
	1	1	0		0
	1	1		0	6
	1				0
-			•		· ·

AB)	c) c/01	c <sup>1</sup> g	CD	CD1
A/B1				
AB		1	0	D
AB				
AB)				1

Sophified empression: AB' +ABD+ABC.

5)



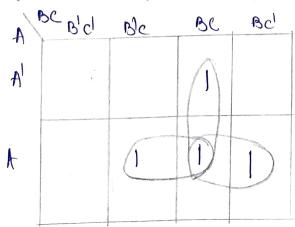


## foru(0h)-2)

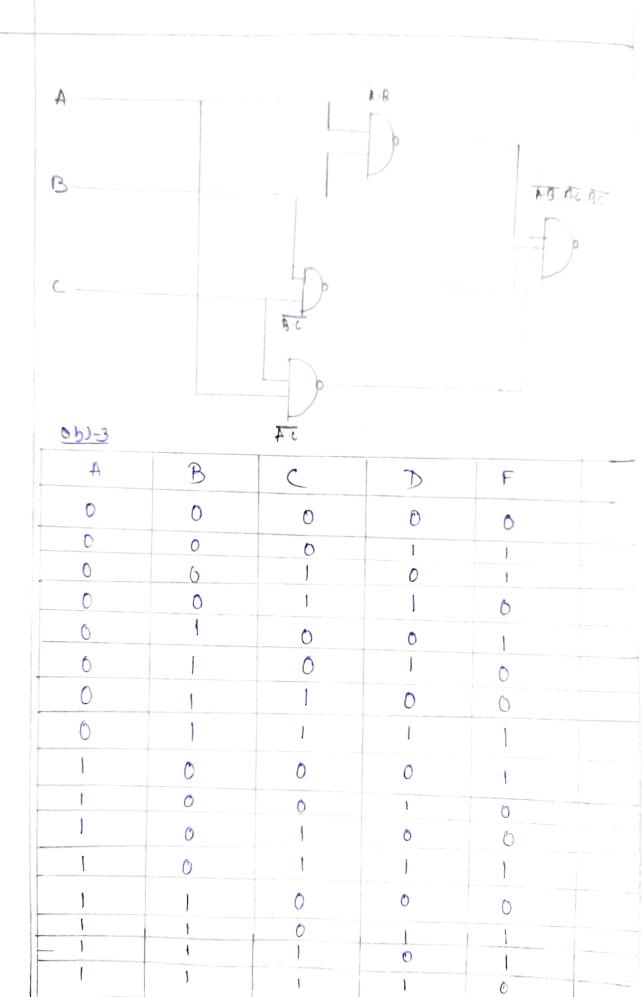
	١
a	)
	ソ

A	B	C	F
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	
	0	0	O
1	0	1	
I	1	0	1
1	1	1	1

5)



Empression: - AB+AC+BC



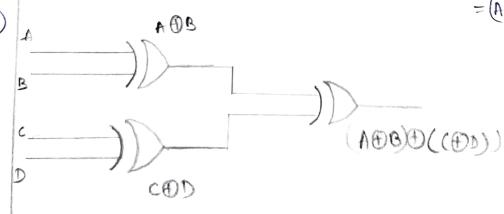
b) F (AIB	,co) =	= 5 C	1,2,4	7.01	1.12.14)
MB 00 00	do	CD	CD	1	(13)1
	1		1		
A'B		1			
AB			entre de la constitución de la c		
AB1 1		1			

= ABICO THOCO THOCO THOCO THOCO THOCO THOCO THOCO

$$= A^{1}B^{1} (C \oplus D) + A^{1}B (C \oplus D) + A^{2}C (C \oplus D) + A^{2}C (C \oplus D)$$

Considering ABBas x and cBDasy
So the empression will be  $yx! + xy! = x \oplus y$ 

=(A (B) (C(D))



A	B	C	D	F	
0	0	0	0		
0	D	0	1	0	
0	0		0	0	All General Street
0	0		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0	
0		0	0	0	Eliteratura (September 1984)
0		0	1		
0	1		0	0	
0		1		6	To all the second
	0	0	0	0	
	0	0		0	
	٥		0		
1	Ô	1		0	
		0	0	0	
	t	D		0	
		P	0	0	
(	1		1		

FEA:1B, CD) = 2 (0,5,10,15)									
AB '	CO do	do	CD	CDI					
ABI	1								
AB		1							
AB		The state of the s	1						
AB1				1					
			ē						

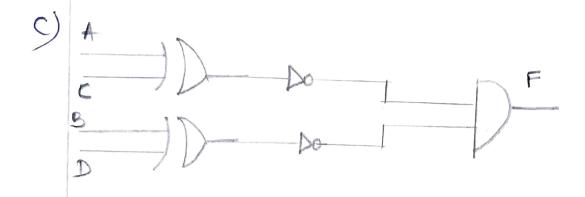
F = A/B/d D/ + A/B c/O + ABCO + ABCO)

= A/C/ (B/O) + AC (BD + A/O)

= A/C/ (B/O) + AC (B/O) + AC (B/O)

= (B/O) + CA/C + AC)

= (A/C) + (B/O) + AC)



Components required									
TC 7408 - Quad 2input AND gate - 1  TC 7408 - Quad 2input OR gate 1  TC 7404 - Henrinventer Not gate - 1  TC 7400 - Quad 2 input NAND gate - 1  TC 7410 - Quad 3 input NAND gate - 1  TC 7486 - Quad 2 input XOR gate - 1  Connecting writes									
A	B	C	D	F					
O	0	0	0	0					
0	0	0		0					
0	0	1	0	0					
0	0		-	0					
O		0	0	0					
0		0							
0			0						
6	1	1							
	0	0	0						
	0	0							
	0		0						
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1	1	0		0					
allingagaman and service for the contract that the service for the contract of			0	0					
				O					

						anticologica resolvante coloreste dell'estate dell'estate coloreste dell'estate dell'estat			
0h)-2									
	4	B	C	F					
	0	0		0	A series and the series of the				
-	0	0	0	0					
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		0		1					
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					- (				
	0h)-3								
	A	B	C	D	F				
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	0	0	O			enterente entrette de la constante entre e			
and Charles of the Ch	0	0		0	1				
	0	0			0				
	0		0	0					
	0		O		0				
	0		1	0	0				
1	0					Malerina (1904), Proc. (1904), Ballon (1904), Proc. (1904)			
-	1			ga accessing general and all all a parties in a state of the constitute state of		A contraction of the contract	Principle of the Commission of		
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	1	0	0	1	8				
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1		0		Constitution of the Consti		tille flet i verne eng på i determet krettell væreplike næge tillen.		Plantick Comp. State Mark Aggree (Plantick Comp.)	
		U							
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			0	1			tion only have been selected as a selected a		
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		1					The state of the s		
-10	And the second s		1		0	,	5 PF-0		

		tion or the convenience of the c	<ul> <li>All the second sections of the second section of the section of the second section of the sec</li></ul>	Profession Character (State Character)
A	13	C		F
0	0	0	0	PROCESSES AND ADMINISTRAÇÃO DE CARROLLA DE
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	0	0	0	0
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	1	I		
	The second secon	- Marian Sealer Square Scientific Sealer State Sealer Seal	Patrick Consider Control Consider Control Cont	

## Conclusion

1. From this observation it can be concluded that for getting the output as pen the instruction the Combinational Circuit leads to the function i.e ABITAIBDTAIBC.

- 2. 3 input andorsty circuit leads to the function ABHACTBC
- 3. The even parcity but from y message bits leads.
  to the function ABBECED
- 4. The equality condition leads to the XNOR function (ADC) (BDD)

## Post Lab

- 1. A majorcity logic is a digital logic circuit whose output is equal to 1 if the majority of the inputs are 1's i.e. The Off is o' otherwise.
- 2. Take xor of it with high input he I
- 3. The function of a magnitude comparator cincuit is to dedormine whether one no. is greater than 1 less than on equal to the other ho.