MAME Doy Saha ID : 21301095 SECTION: 10

... C.S.E 260

Ans to the quest not - (01 (0)

$$= \chi' y \overline{\chi}' + \chi' \chi' + \chi'$$

6 (17

(Ans)

$$= 0 + xy + xy' + 0$$

$$= 0 + xy + xy' + 0$$

(A) + (1) x = 7 , +9_

(a)
$$(a'+b)'(a+b')'$$

= $(a'+b+a+b')'$

= $(a'+b+a+b')'$

= $(a+a')+(b+b')'$

Go Given expression,
$$x'y' + xy'$$

Let, $F = x'y' + xy'$

$$F' = (x'y' + xy')^{1/2} = (x'y')' \cdot (x'y')'$$

(17 April (17 April 27 April 2

b) Given expression, (x'+y+z')(x'+y')(x+z')Let, F = (x'+y+z')(x'+y')(x+z') $\therefore F' = (x'+y+z') \cdot (x'+y') \cdot (x+z'))'$ = (x'+y+z')' + (x'+y')' + (x+z')' = (x''+y+z')' + (x''+y')' + (x'+z'')' = (x''+y+z')' + (x''+y')' + (x'+z'')'= (x''+y+z')' + (x''+y')' + (x'+z'')'

(Ars)

Ans to the gues noi - 3

$$\begin{array}{ll}
\underline{(A)} & F(A,B,C) = A'B + A'BC' + A'C' \\
& = (A'B)' \cdot (A'BC')' \cdot (A'C)'' \\
& = ((A'B)' \cdot (A'BC')')'' \cdot (A'C)')'' \\
& = ((A'B)' \cdot ((A'B)'' \cdot C')')'' \cdot (A'C)')'
\end{array}$$

[5 =x)(x++z)(x++2)(x+-2)

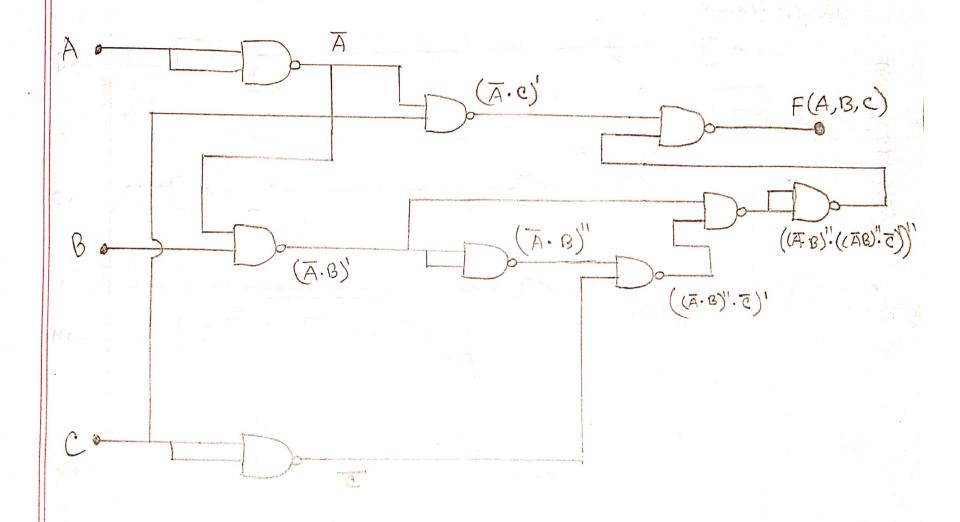
((2+2) ((2+1x)) (2+24x)) = 17:

('5+x)+('v+x)=('5+(x)).

("5 + 1x) + ("0" ") + ("s - 1e - ((x)) -)

3 x + 6x + 360

a definition of the second of



(3)

(b) F(A,B,C,D)= (AB'C'D'+ AD + (B+D'))'

= '(AB'C'D')' A (AD)' B (B+D')' A) 7 (O)

('D' = (AB'C'D')' (AD)' (B'D')'

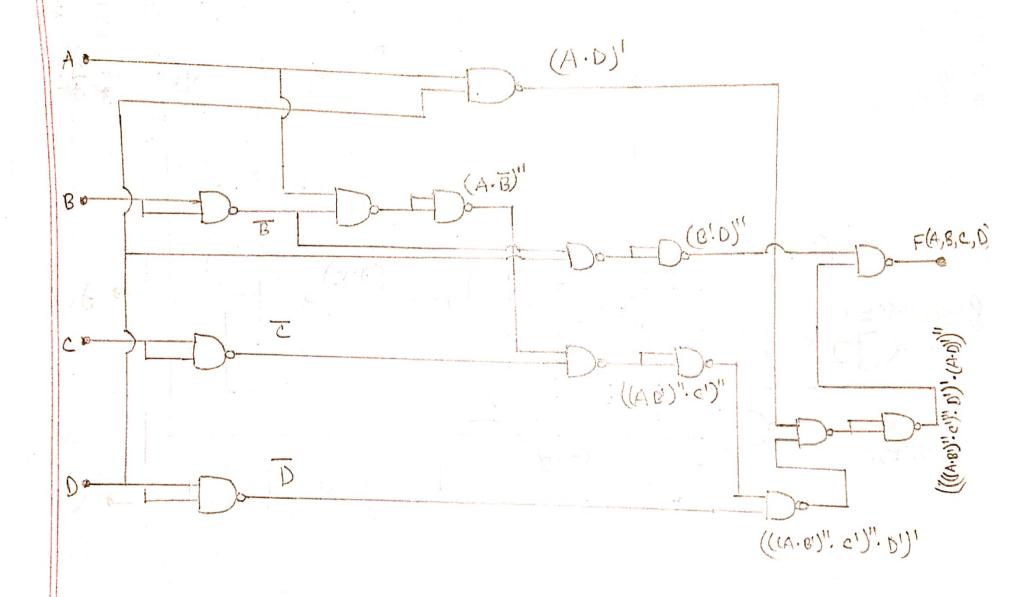
('D + A) += (AB'C'D') (AD)' (B'D)''

('D + A) = (((AB)'' C')'' D')' (AD)' (B'D)''

('D + A) = ((((AB)'' C')'' D')' (AD)') (B'D)''

('D + B) = ((((AB)'' C')'' D')' (AD)') (B'D)'')''

7



(8)

(Ansalto the ques mo)-(4,00,A)7 (

$$= ((A+B')'+(A+C)')'+)((A+B)'+C')''$$

9 (A+B) (A+B)" ((A+B)+-(A+c))" B F(A,B,C) ((A+B)"+E)" (1)

(b)
$$F(A,B,C,D) = (AB'C'D' + AD + (B+D'))'$$

 $= ((AB'C'D)'' + (AD)'' + (B+D')'')'$
 $= ((A'+B''+C''+D')' + (A'+D')' + (B+D')'')'$
 $= (((A'+B'')''+C'')'' + D')' + (A'+D')' + (B+D')'')'$
 $= (((A'+B)''+C)'' + D')' + (A'+D')' + (B+D')'')''$
 $= (((A'+B)''+C)'' + D')' + ((A'+D')' + (B+D')'')'')'$