	771677	سهاره دانشودی ،	(25 C) [6]
0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FFF F 6 F 1 1 1 1 1 1 1 1 1	Fr=(Ao+A1+A1) @ A's <-lesting of f <-lesting of f f= V.	+ Fr = (A0+A1) ⊕ A'r 9
=> f (wg ngygz))= (x-11) (-	n+y)= n+y	(ドリック)= x(1+yz+w+w)+yn(1+z)
1) +(H9 D9 C9 D) = [B (A+A') = B	AB+CDA+AD+CD+A	BP

$$\begin{array}{ccc}
 & a_9b_9c \\
 & |xr| & |xr|$$

$$f(a_9b_9c) = (a'+b+c')(a_9a'b+a'bc)+b'c' =>$$

 $f(a_9b_9c) = a'bc+a'bc+a'bcc'+b'c' =>$

$$ac = ac \cdot (b+b') = (abc+abc) \cdot (d+d') = abcd + abcd' + abcd' + abcd'$$

 $bd' = ba' \cdot (a+a') = (aba' + a'bd') \cdot (c+c') = \underline{abcd'} + \underline{abcd'} + \underline{abcd'} + \underline{a'bcd'} + \underline{a'bcd'} + \underline{a'bcd'} + \underline{a'bc'} + \underline{a'bc'}$

```
ىدروال ١٤) الث
 ) f (agboc) = (a+b) (a+c') (b+c)
   a+b=(a+b+c)(a+b+c')
                                                                                                     => 3, 5, 5
 a+c'= (a'+b+c') (a+b+c')
  b+c=(a+b+c)(a'+b+c)
                                                                                                      f(agbgc) = (atb+c)(atb+c')(a+b+c')(a+b+c')
                                                                                                                                                                                                                            (atb+c)
                                                a+b+c->0
                                            a+b+c' ->1
                                           afb+c'-D
                                                                                                                                       MM (09194969V)
                                          a+b+c' -> V
                                          a+b+c -> K
  1)f(a)b)c)d)=(a+c+d)(b+d)
   a'+c+d = (a'+b+c+d)(a'+b'+c+d)
 (b'+d) = (a+b'+c+d)(a'+b'+c+d)(a+b'+c'+d)(a'+b'+c'+d)
 =>f(a)b)c)d)=(a'+b+c+d)(a'+b'+c+d)(a+b'+c+d)(a+b'+c+d)(a'+b'+c'+d)
  a+b+++d=11
      a+b'+c+d = K
     a+b+c+d=9
    a4b+c4d=14
                                                                                                                                                                                                        سۇال ۲) ب
 1) f(agbocgd) = \( \sum_{\odge \odge \odge
 => f (agborgal) = (Em (oglodo Aglifolfol). TTD (rovoll)
=) f (10 bacad) = TM (00100, Nollo 16, 10). TTD (10 V911)
(YIEVEL) TU. (11666 Letel) WI = (Posol) (L
=> f'(aobocod) =
                                    TTM (009494910911911910). TD (1015)
```

f(A = B = C) = ((B+A')(AB+C) + ABA'+A'B'C+(A+B)(A+C)) =>f(ABBOL) = (AB+BC+A'AB+A'C+A'B'C+AA'+AC+A'B+BC) -> f(A9B9C)= (AB+ BC + AC+ (A+A')(+A'B'C+A'B)' => f(ABBOC) = (AB+BC+AC+(1+A'B')C+A'B) => $f(A_9B_9C) = (B(A+A') + C(I+A))' => f(A_9B_9C) = (B+C)' = B'C'$ => $f(A_9B_9C) = (B'1C') \uparrow (B'1C') = (B_1B_1) \uparrow (C_1C)) \uparrow (B_1B_1) \uparrow (C_1C)$ ==> f(nogrigaryn) = [(xtxixx'). (x+1+x+). (xoxxixx). (xoxxixx). (xoxxixx). Nand is (abc) = at bic 1)f(agbgc)=(a+b)(a'+c)(b+c) => f(a)b)c)= (a+b)' 1 (a'+c)' 1 (b+c)' =)f(a,b)c)= (a+b)1(a'+c)1(b+c) => f (a o b o c) = (a + b) + ((a + a) + c) + (b+ c) () f (no a 19 x r o n +) = n o n , x r + x o n (n r + x o n , x m + y o n , x m + y o n , x m) => f(nog x19 x 19 x 1) = ((nox, np) + (xox) + (xox) + (xox) + (xox) + (xox) = (TROTROTE)= ([n.t.(n,t.n))((nt,n))) (((nt,n)), (n,t.n)) (((n,t.n))) (((n,t.n))) (((n,t.n))) (((n,t.n))) F (20 + 20 + 1 + (24 + 24)) [(24 + 24) + (24 + 14) + (24 + 24)) + (24 + 24) + (24 + 24) f (Matuo) + (Mitu) + (Mutu) + (Mitu) + (Mitu) + (Mitu)

a	b	C	a	fi	fr
0	D	0	0	0	O
b	o	0	1	0	P
0		1	o	0	D
o	0	1	1	1	1
0	1	0	۰	D	١
0	١	0	1	1	0
0	1	1		1	1
o	1	1	1	1	1
1	0	٥	0	D	0
1	٥		1	0	6
1	6	1	0	0	0
١	9	1	1	1	1
1	1	D	0	٥	1
1	1	0		T	0
1	1	1	D	1	1
١	1	1		1	1

$$f_1 = f_1(a_9b_9c_9d) = (b+cd)(c+bd)$$