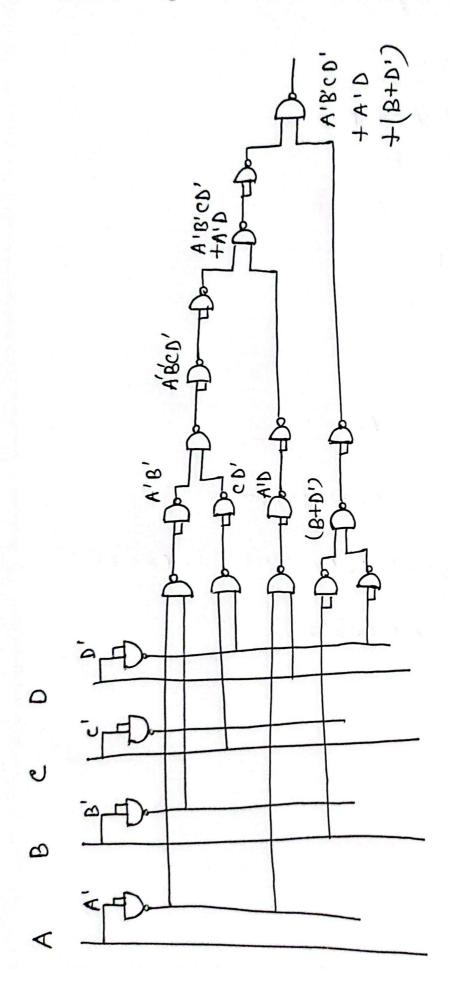
Azmarii Sultana

Id: 23301949

CSE360

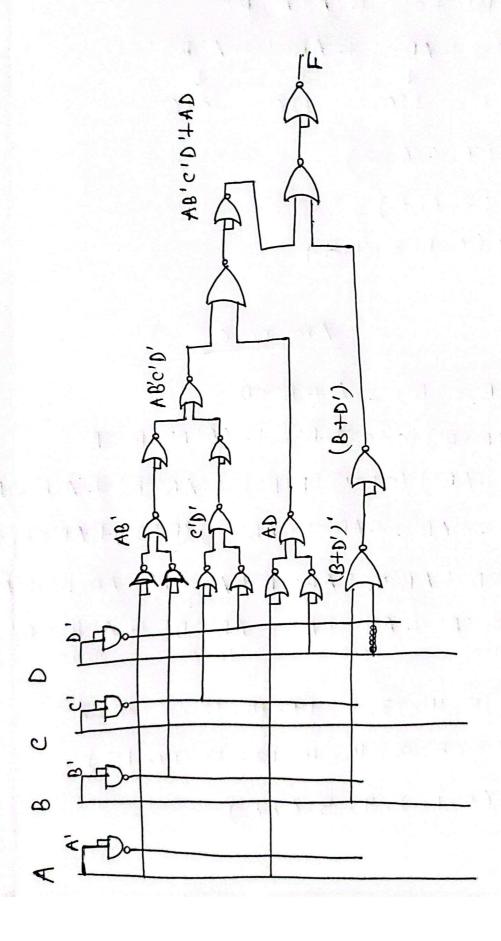
Section: 03

Am no 2



Ans no 4 (NOR)

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



Amo no 6

```
F(A, B, C, D) = A + B'CD'

= A(B+B')(c+c')(0+D') + (A+A') B'CD'

=(AB + AB')(c+c')(D+D') + AB'CD' + A'B'CD'

=(AB C + AB'C + ABC' + AB'C')(D+D') + AB'CD' + A'B'CD'

= ABCD + AB'CD + ABC'D + AB'C'D + ABCD' + AB'CD'

+ ABC'D' + AB'C'D' + AB'CD' + A'B'CD'

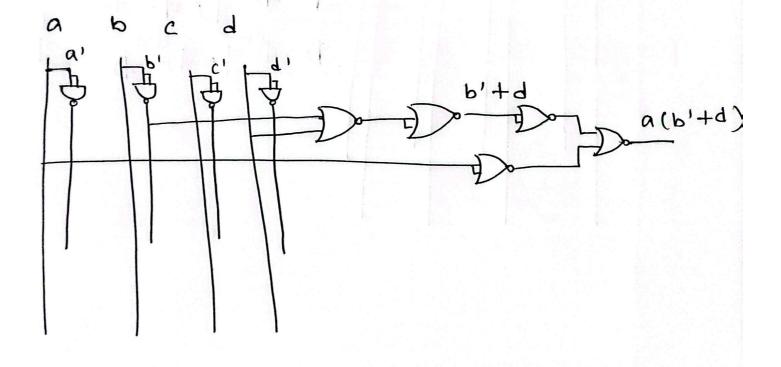
1100 1000 1010

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```

F (A, B, C, D, E) = AB+CDE

- = AB(C+C)(D+D)(E+E)+(A+A)(B+B)CDE
- = (ABC+ABC') (DE+D'E+DE'+D'E')+(AB+A'B+AB'+A'B)
 CDE
- = ABCDE +ABCIDE + ABCDE + ABC'D'E + ABCDE'
 - + ABC'DE' + ABCDE' + ABC'D'E' + ABCDE + A'BCDE 11010 11100 11000 11111 +0000 01111
 - + ABICDE + AIBICDE
 - = {(31, 27, 29, 25, 30, 26, 28, 24, 31, 15, 23,7)
- = 5 (7, 15, 23, 24, 25, 26, 27, 28, 29, 30, 31)
- $= \pi \left(0,1,2,3,4,5,6,8,9,10,11,12,13,14,16,17,18,19,20,21,22\right)$

8) F(a,b,c,d) = 2(8,9,10,11,13,15) = AB'c'b' + AB'c'b + AB'cb' + AB'cb + ABc'b + ABcb = AB'c'(b+b') + AB'c(b+b') + ABb(c+c') = AB'c' + AB'c + ABb = AB'(c+c') + ABb = AB' + ABb = A(B' + Bb) = A(B' + Bb) = A(B' + B)



= a'b'c'd' + a'bcd + ab'c'd' + ab'c'd + ab'cd + abcd = b'c'd' (a+a') + bcd (a+a') + a b'd (c+c') = b'c'd' + bcd + ab'd

= a'boid + ab'oid' +ab'oid taboid + abed

$$= a'bc'd + ab'c' (d+di) + ab (cd+c'd')$$

$$= a'bc'd + a(b+b)ci)$$

$$= a'bc'd + a((b+b)(b+ci))$$

$$= a'bc'd + a((b+ci))$$

