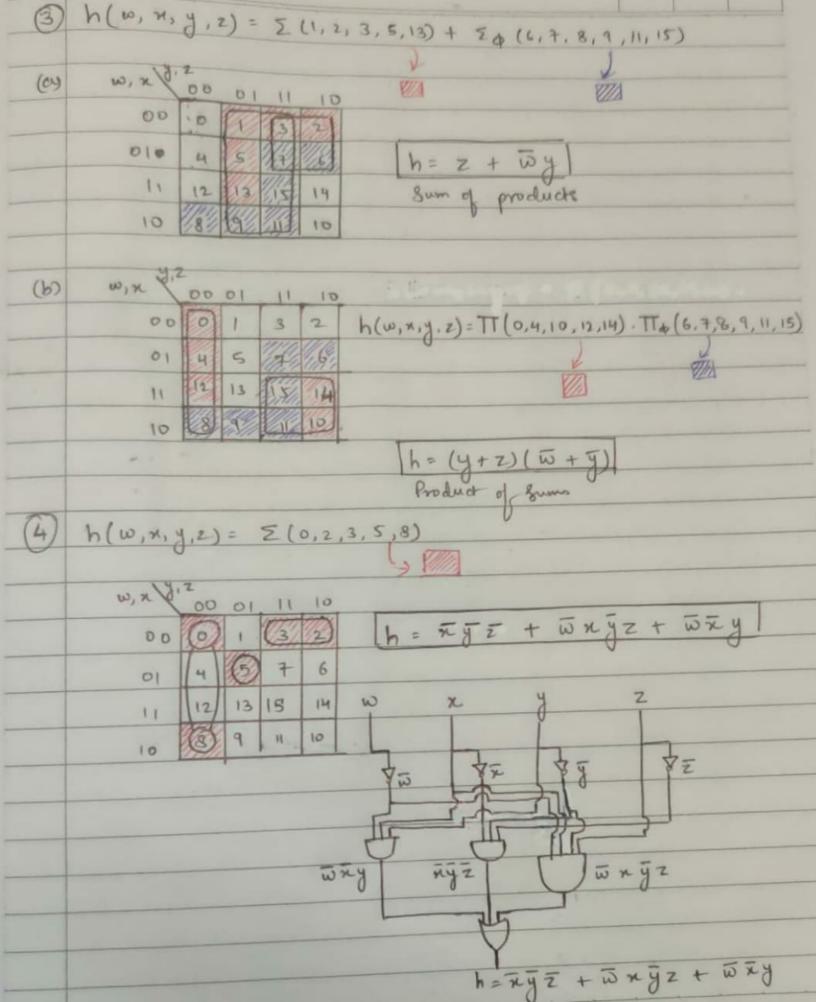
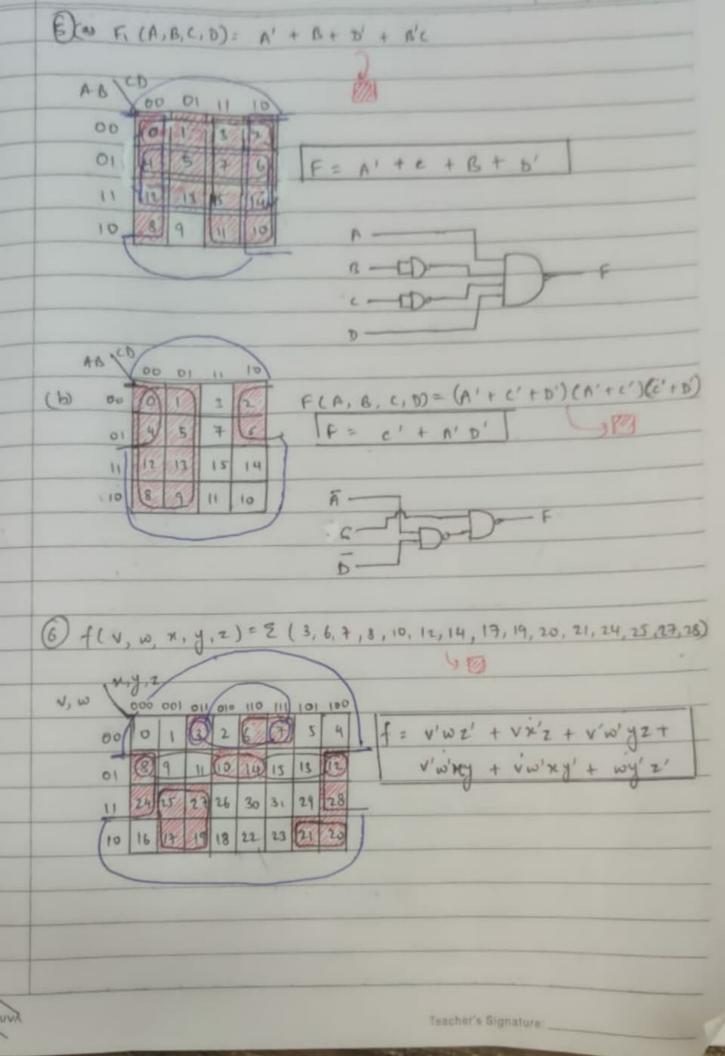
Ton f (mix, 9, +) = \((0,2,4,5,6,7,8,10,13,15) Longout Wa 82 92 42 329 42 WY Groups (0,2,4,6) 7 WZ (0,2,8,10)つ ええ (5)7,13,15)かんそる +(w, x, y, t) = WZ+ NZ+ NZ f2(w, 4, 9,2) = E(0, 1, 5, 7, 8, 10, 14, 15) WX 0 0 1 1 0 wx 12 Groups (0,8) + x jz (122) > 2 gz (7,15) > n yz (10,14)) wy I f(いい,かりを)= えりを+のりも+yyz

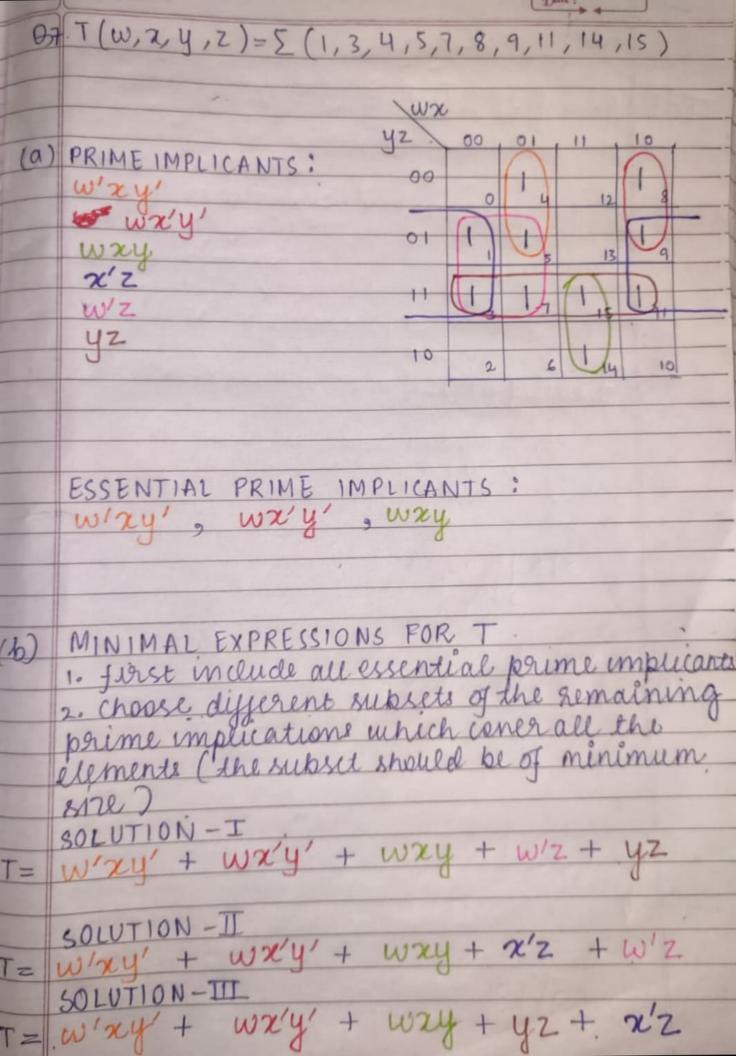
(C) f3(m) N, y, z) = \(\(\chi_3, \lambda, \lambda, \lambda \) layout 15 f3(w, x,y,z) = wx + wxy

g, (w, n, y, z) = TT (1,3,5,7,13,15) Layout いれ タレ すを カナ タト タモ NW 0 13/15/14 W.M 0 Wn Groups (0,2,4,6,12,14,8,10) -> 0 (8,9,10,11) → win → w+2 g,(w, x,y, z) = Z(w+x) b) 92(W,N,y,z)=T(1,3,6,9,11,12,14) いかずをあとめと Wx 0111 NW NW 0 (0,2,8510) - 7 7 = 7 - n+z Groups (5,7,13,15) - NZ - N+E (0,4) - 09= - w+y+Z 92(W, M, Y, Z) = (M+Z) (N+Z) (W+Y+Z)

(C) gs/w, n, y, t) = [[() y, 5, 6, 11,12, 13, 14,15) layout WR NW NW 0 -10,2,8,16)-> 7.Z 0,2,8,16)かえを つ ハナモ 13,7) ~ のりと す いナダナモ - (8,9) ~ いえり ~ いナハナタ 92(W, N, 8, 2) = (x+2)(W+y+2)(W+n+y)









PRIME ZUPLICANTS a'bc', abc, ab'c', a'd, b'd, ed (TOTAL 6) ESSENTIAL ESSENTIAL/ /->/ // 64/8/ (only cover for 4) (only cover for 14) (only cover for 8) (70 TAL 3)

Q 9) Bluide into groups Group with & bits turned on -> (K) manchs - (has) - (2) when we collapse & and &+1 me unbuld be collapsing of group with M-12 0's and k1's with n-12-10's and k1 1's in the output we would have m-k-1000s, 12 1's and 1 - 2 symbol the number of members of they

of n-k-1, k, 2 1-e.

we can continue collapsing such states and note that the number of on and decrease by I and the number of i would increase by I we can continue collapsing states till they one of them has atteast of a single o.

sport would be the permutation

where one get implicants all implicants would have k 1s · number of implicants = 13 Permutation of k1's and n-k- $=\frac{(n-k+k)!}{k!(n-k)!}$ R!(N-K) = (n)

(010) by (w, x, y, 2) = & (1, 5, 6, 12, 13, 14) + 40(2,4) 10-01 0001 V (A 1211373) TO-0010 (2,6) 0 -10 610_ ~ (4,6,12,14) -1.0 (4) 01000 (417) 01-0~ (4,6) -100 V (S1,12) 0/0/0 01100 (5)141 -101 1100 (12,13) 110-6 (3) 11012 (12,14) 11-0 1110~) ignored 5678 31011/12/13/14 X (4,5,12,13) X (4,6,12,14) X (1,5) wyz (226 . redundant. h, (Winny)と)= ng+ xを+ マダモ

10 (b) h2(w, 4, 4, 2) = \(\(\begin{array}{c} (0, 15, 7, 8, \frac{4}{2}, 14, 15 \end{array} \) (01) 000-(0) 0000 ~ (0,8) -000 (1) 0001 (122) 0-0) 1000 (8)107 10-0 0/0/ 01-1 10100 1-10 (10,14 611)~ 7,15) -11) (15) 1111 / 5 14 15 8 10 (011) (0,8) 8,10

