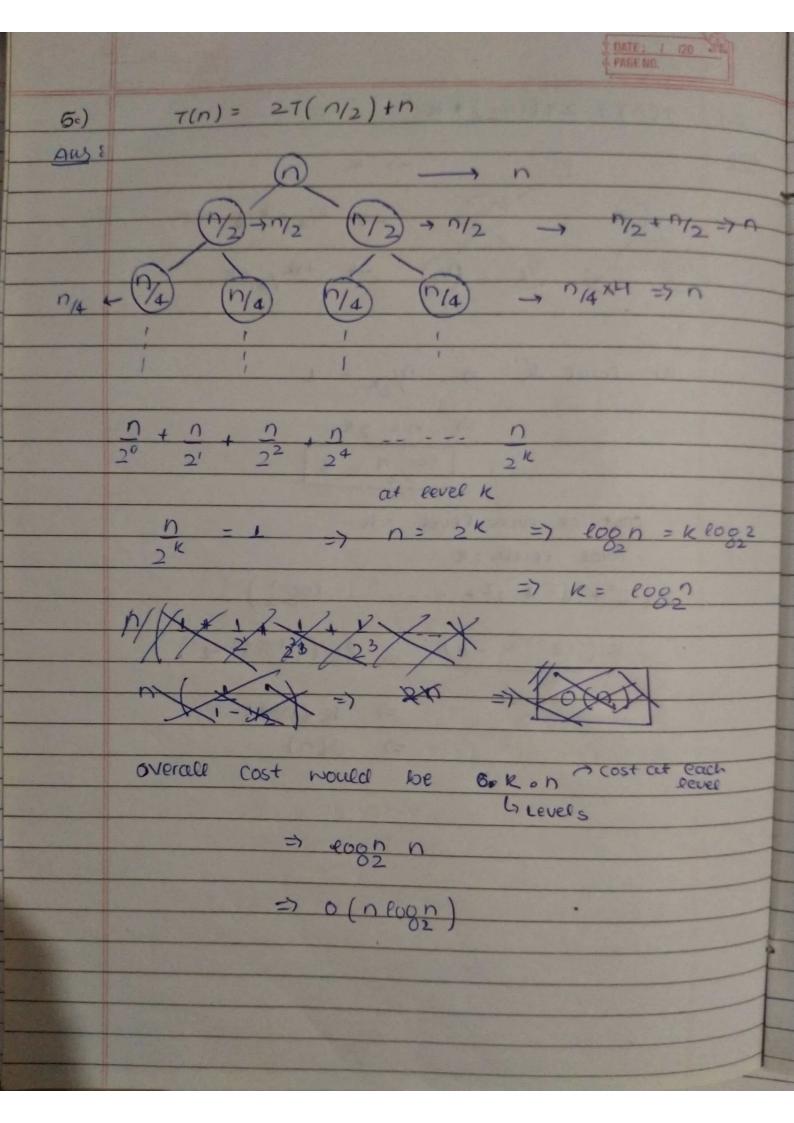
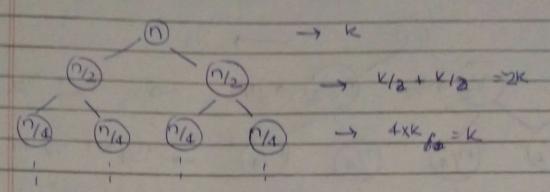
=> 3x 27 +24 81 +24 => 105

3.) T(n) = T(n-1) + C — i Let the solube - o(n) T(n-1) = T(n-1-1) + CAns T(n-1) = T(n-2) + C - iiputting (ii) in eas(i) T(n) = T(n-2) + CT(n-2) = T(n-2-1) + CT(n-2) = T(n-3)+C similarly so on T(2) = T(1) + CT(n) = T(1) + cnlet T(1) be constant Than T(n) = (n) Hence, T(n) = O(n)4 7(n) = 167 (n/4) +n2 loon master Theorem : Aus Here, a=16; b=4; k=2 $a = 6^k$ $16 = 4^2 \quad 609 \quad \text{we need to compare } P$ P=1 Than TKNZ= Q(1208 2 COOKOOR) 1000 to loo loo T(n) = 0 (n 608 8 800 pts) => 0 (n e08 16 x e00 1+1)

=> 0 (n2 x log2n)



Aus



at cover
$$k' \Rightarrow n/2k = 1$$

$$= n = 2k$$

$$| eoo n = k$$

cost ar each level = 10

Total revelle = K