

8-3 Give a decervence relation, do be itwing a substitution method: T(n) - T(n-1) + C

C.JN = T(N-1) + C = 0

T(n-1) = T(n-2) + C

put in eq-0

T(n) = T(n-2) + 2(-2)

T(n-2) = T(n-3) + Cput in eq-(a)(2)

T(n) = T(n-3) + 3(-3)

T(n) = -(n-k) + kc

T(1) = 1

n - K = 4 - - - T(n-K) = 1 (K=h)

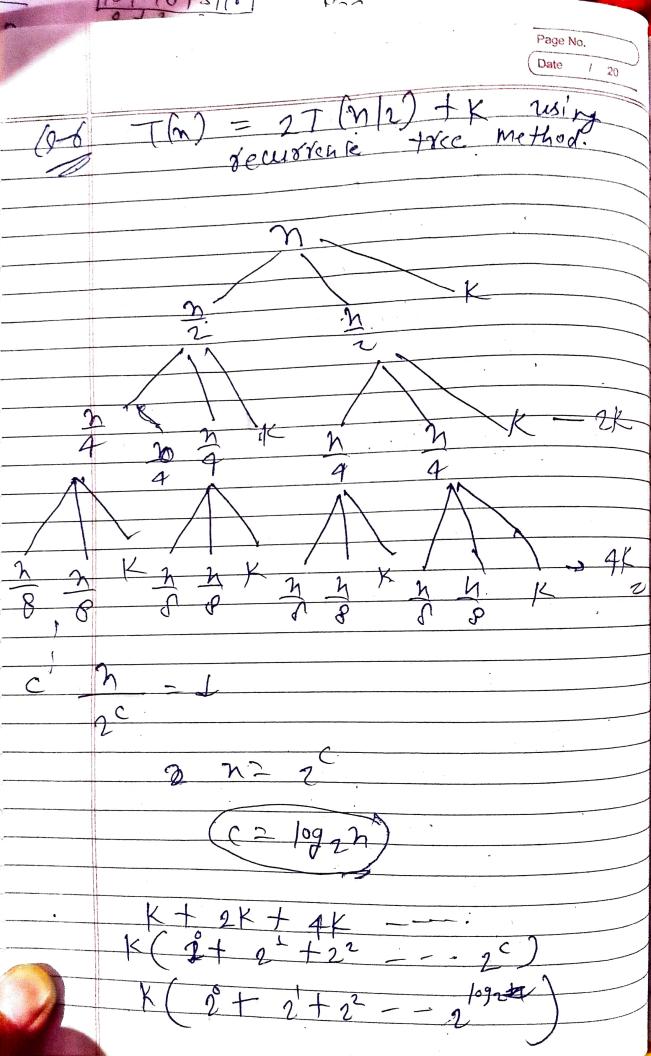
I(n) - 1 + nc

0(n)

O-4 bine a jeurrence relation. T(n) = 16T(n/4) + n2/09h find time completity using master theorm. Standard egn! (n) = a T(n) + o (n K log Ph) Compare with egh. a=16, b=4, K=1, P=1ax axbk 16 2 4 16 216 Condition Radio A

Page No. (a.2 Cale-2 6=16 n/094/6/ 1 line: Lacuwer Re Telafish Lising

sive the following recurrence relation tree method's -T(n) = 2 I(n/2) + n, (n) og2nxn) 0 (po. n/ozn



Page No. Date 20 Cup series