MUKUK RAWAT, 42, CST Date: 1 uterial -4 $Q(1) = 3T(n/2) + n^2$ Q = 3, b = 2 $f(n) = n^2$ 812c a > 0 4 5>0 4 7(n)-n2 us tire 150 moster method applicable. = 105 3 = 1.58 C = 109 9 non 05 > 01.28 here. f(n) = -1 (n/4) = a+E) T(n) = 0 (D TIN1 2 4T (nb) +n2 02 f 607 = n2 a=4 b= 12 .. +(v) = 0 (U 102 Pd (1 × (0) 1)

Mand Kawar Date: (93.) T(n) = T(n/2)+ 27 a=1, b=2 (n)=2n C= log ce = 0 also n is is folynamically long. 7(n) = 0 (2n) AN 04) T(n) = 2n T(n/2) + nn a= Non-constary (Nor Applicate) OS.) T(n) = 16T(n/4) +n a=16, b=4 fin)=n C = 109 Ba = 2 300 Bafolynamically larger so : T(n) = 0 (n)

Mari Zawar Date: Ob.) T(n)= 27(n/2)+ 0/1000 a=2 b=2 C= 105 9 = 1 nc = n * fin) werfolynamically 4(n) 0 = n/05 (K >0) K=1 ; racuter raemod nor afflicable Machine Committee to ていい: 27(か)ナかりかつ : C= 10g g 2 :. vc 7010 ··· Ta: 0(n)

 $f(n) = O(n^{2} \log^{2} n) \rightarrow P \in \mathbb{R}$ $Volume Date: \geq p$ $O(n) = 2T(n) = 2T(n) + n^{0.51}$ a=2 b= 4 c = 109 2 = 1/2 ·· n° < f(~) (12.0 u) = (U).1 09.) T(n) = 0.5 T(n/2) 3 Yn nor applicable. ax1 010) TIN)= 16T(MA)+n! C 2 105 16 = 2 nc < 1(n) T(n)= 0(n1) T(n) = 4T(n/2) +10yn coll. c= 109 9 = 3 n - > (09 n T(n1= 0 (n2)

Jan Tawa (O)2) TIM= 8971 (M) T (M2)+1 memod Nor applicable 013.) T(n) = 3T(n/2)+n \$(v)=n a=3, b=2 C= 109 3 = 1.58 T(n) = 0T(n) = 3T(n/3) + Sgrr(n) C= 109 4= 2 C.n

Mand Kamot

Date: /

$$-\frac{1}{1}(n) = \Theta(n^2 | u | u)$$

Mar Lawar 019) TIN = 4TIN/2) + 1/1050

Qn)= n108-10 = 0 (0 x 103-10)

merho d'nor applicable ly

T(n) = n(0)59 105 logo - n³ luslogs

7(n) = 677(n/8) - n2lon (020) 4(n) is -i-ve

(12V) TID) = 7-T(1/3)+n2

C - 1. NV

2 < 2 : TIN) = 10 (n2)/

032) T(n) = T(n/2) + n(2-con

Find No Cregular functions
o Machter Method Not capplied

in mothod chor is $T(n) = ax T(n/b) + o(n^{k} \log^{n} n)$:- (i) a > bk TIM) = (0 (nlugba) (ii) a < bx up (p>Q) -> T.In) = Q (nx login) $(-1) \circ (-1) \circ (-1) \circ (-1)$ a=516 710) = 0 (n/09 54 109 PH) 1 , T(n) = 0 (n 105 5 los P < -1 , T (n) = (0(0)59)