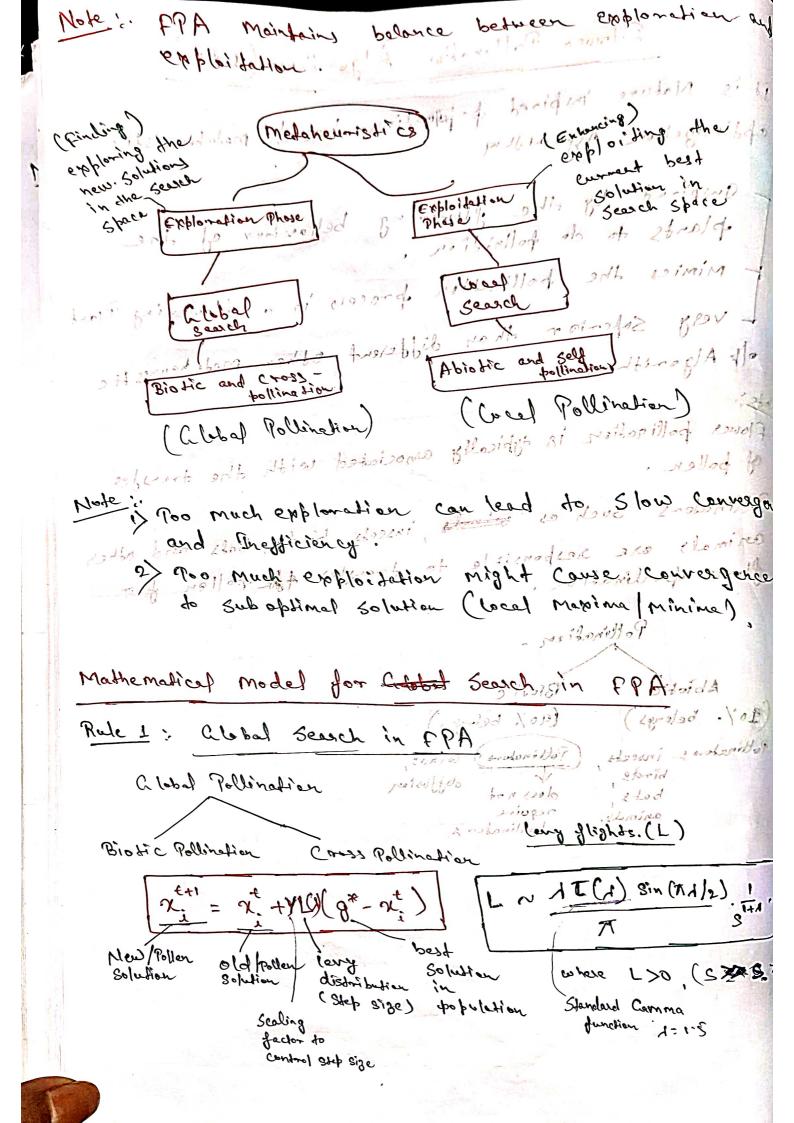
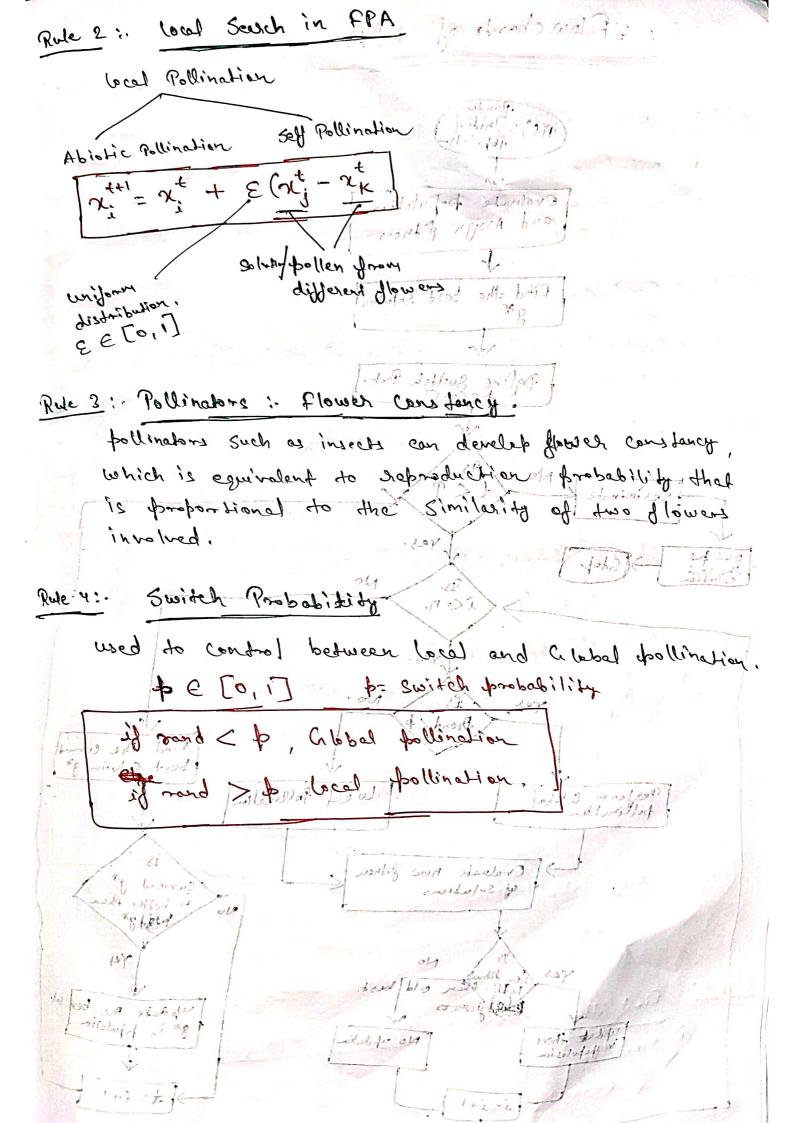
Flower Pollination Algorithm (tPA) It is Nature inspired population based medaheuristie oblimization Algomethy Austined by the flowering behaviour of the plants to do pollnition Minice the pollination process in a glowering Plant very saferior than didderend other medaheurs tic old Algorithmy of her stidely Note: (sound Political) (Sectional of lade)) - Flower pollination is typically associated with the transfer of follow. Pollinabors of Such as being, insecting birds; bats and other flower who Unalian , the to trouble so the bollen for (estation maigress (seed) nother of fortide dut Pollination. Biotical model for Little Seen illow Abiotic 97 (90% belogs) at Local Seased in (10% belongs) Pollinators) winds, religionities bode) Pollinators: insects, abythering binds, does not bats, require animals. pollinators. though go zers 1 (dh) 0.8 (D] / (to-*8) (Y+ to = eval policy color form long TEXT ON S seed as we then so withed interb (Step 8130) Hopelation Standard Course pridood. Silit motions of roleing 28:3 4-10 lookus)





EPA NO NO S Flow chards of rellander Par P(c): Initia Populal Evaluate population and Assign filmers Many rolled framp find the best Solution 8* Deline Switch Porb. goverheines de constances repo or No vo poul av NI yes. > Stop. 190 Ds. JC= N. between will and a label dollination Hilliandord, No. 13 Frond < + Find the cu best solution 8* Lo cal Pollifation Personn alabel Evaluate new fitner current 8th of solutions is better the No p1848* 79 40 gh in population update they wildly on in topulation 127= += 16 ノナえこん

Algorithm. of FPA 1. objective min | max f(x), x = (x, 12 1/3 My - - , Nd) 2. Initialize a population of n flowers pollen garder with Sandon Solution. 3. Find the best solution got in the mitial Solution Deline a Switch probability de Color Deline (2 while (of < Man Generalian) 19 lod coursely or Giral Jan 1=1: n (for all n flowers in the population) Draw a (d-dimensional) Step vector Lymon a and the che bollings a wilder bed on the sind in to property bed on the sind in to property of the sind in the sind of the sind in the sind in the sind of the sind in the sind in the sind of the sind in the sind of the sin Do boal spollindian ofthe of E (nt of) endail. 13. [1,0] 34 14. Exerchate New Solutions 15. addom Solutions are better update their in population endform . 21 17 rend while Find the current, best of Solution of the 110 1007 if currend 8th are better to the date best solution 8th in in 20 endrewhile robser dete (terricians) o and topulation Moder the best Solution for output book be (2) [1,0] vi soiledicher G verofine mort cure C Exertily workers to word of endows (8 instalos ble with solder one contintos work for (4 when whole we also were of the world And the eurose of bold solution got in populations

ATT TO TOUR A FPA Algoridhma steps colocoline win lun ger, at - for N Step 12 This Holizable resold of granded on og billing 2) Initable Parameters. En too Thistory and boils.
2) Initable Population (1) - n dlowers / polen gancles with random solution d > hone li Step 2: Evaluate didness (of (xxt) ib -b) n cont Decalorilated the fithers value of each flowers in popular 2. Find the best Solution 8th in the cointitial for which step 3. Deline a Switch probability losal of babas. DE [0,1] ENE velocite new Solutions Stepuis Check sport & topping contenta moto . 11 5keps: For all the Midlowers in dopulation by 19 1 if the million hered Ste Switch philosolalisty (B) 1 + 1 = + Residet Draw a (de dimensional) step vector l'infrance leur distributions Perform bobel to Whaten of 41 At 17 Logn-nt) 2) If roud still frobability (b) Draw from uniform Distribution in Co,1] 3) Evaluate New Solutions filmens 4) If now solutions are better than old solutions. then update, or else does no need to update Step 6: Find the current best Solution git in dopolation 1) Find the current best Solution 8th in the population 2) If current best solution 8th 19 better the 3) upolate best solution 88. in 4) t=t+1 Produce 90 output