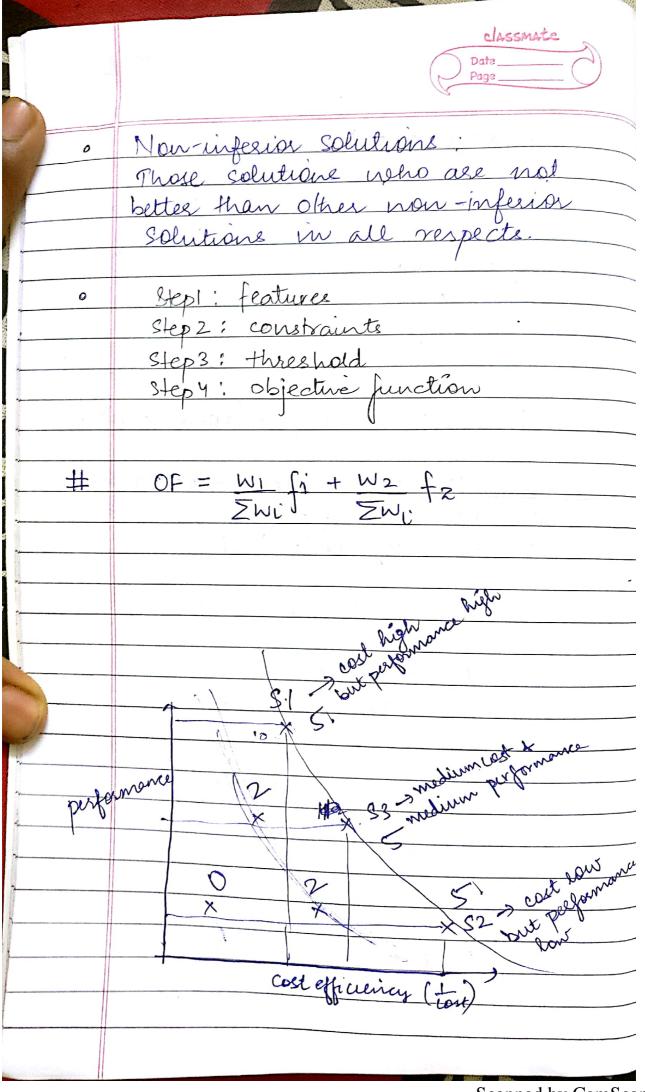
classmate Date features can be of any domain Objective function should be some itness must lead to the objective Computational to explore the search space Gen 1

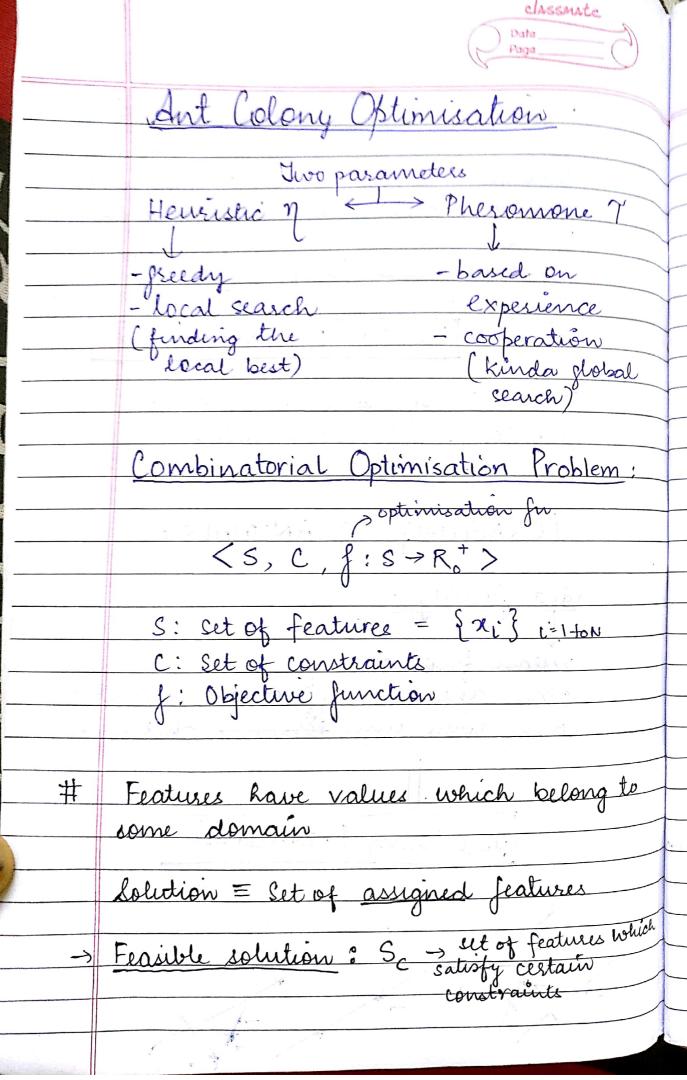
Scanned by CamScanner

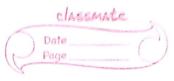
I we we elitism: voil be a non-decreasing fundi not entirely Gen Then we do a random walk. In crossover, you have to see whether the offspring does not violate any constraint. W10F1 - W2 OB + W20F3 SW SW EW W109 + W2 + W305 ZW 09+0B 1+06





S1,52,53 are non-inferior solutions. Through weighted mean, I will get the averagely best soln 83. SI and 52 wi I would rather have a set of merion bareto-optimal solution Rank: No. of solutions vehicle are not Suferior in all dimensions TORAGING BY ANIMALS: Aut family: release feramone Other ants sense phromone & follow Ant Colony Optimisation





Define global minima/ \max -> you may not reach it but clil we define it, because that is the ultimate goal $\int (S_c^*) \leq \int (S_{i}) \cdot \forall S_i \in S_c$		
		Define global minima/ max -> you may not reach it but clil we define it, because
$\left(S_{c}^{*}\right) \neq \left(S_{i}\right) \forall S_{i} \in S_{c}$		
· T.		
global optima		global optima
TOD ACO 1		TOD 1
TSP using ACO:		15P using ACU.
Set Parameters Initialize pheromone levels for some		Initialize Set Parameters
paths		paths
		Do nine mudom
Synchronise (optional) Sprobabilidac		Syncheonise (optional) probabilistic
Update phesomone Sud		Update phesomone
Sid (Stop Criteria)		Sind (Stop Criteria)
convergence citéria.	93.13	convergence cirtera
In A Co, it is often 'n' iterations		In Aco, it is often 'n' iterations

1	Construct Ant's solution =>
	Probability of choosing a next node, given a set of neighbours
	$P(C_{ij} _{SP}) = T_{ij} \alpha \eta_{ij}^{B}$
	neighbours \(\sum_{ij} \) \(\text{Tip nij} \) \(\text{E} \sum_{ij} \) \(\text{E} \sum_{ij} \)
	esp.
	where:
	Tij = Pheromone trail b/w i'2j
	Tij = Pheromone trail b/w i' f j n = local factor (min diotance)
- 47 A-2	ag all as a superior and a superior
	$n \propto 1 = 0$.
	Lij Lij
J. J. Proceedings	
	Synchronise = '
a tiwi	In GAS, solutions interact with each other using crossovers. That is not
	directly present here.
	In ACO, there may also be communica between ants
	:. This optional step.

