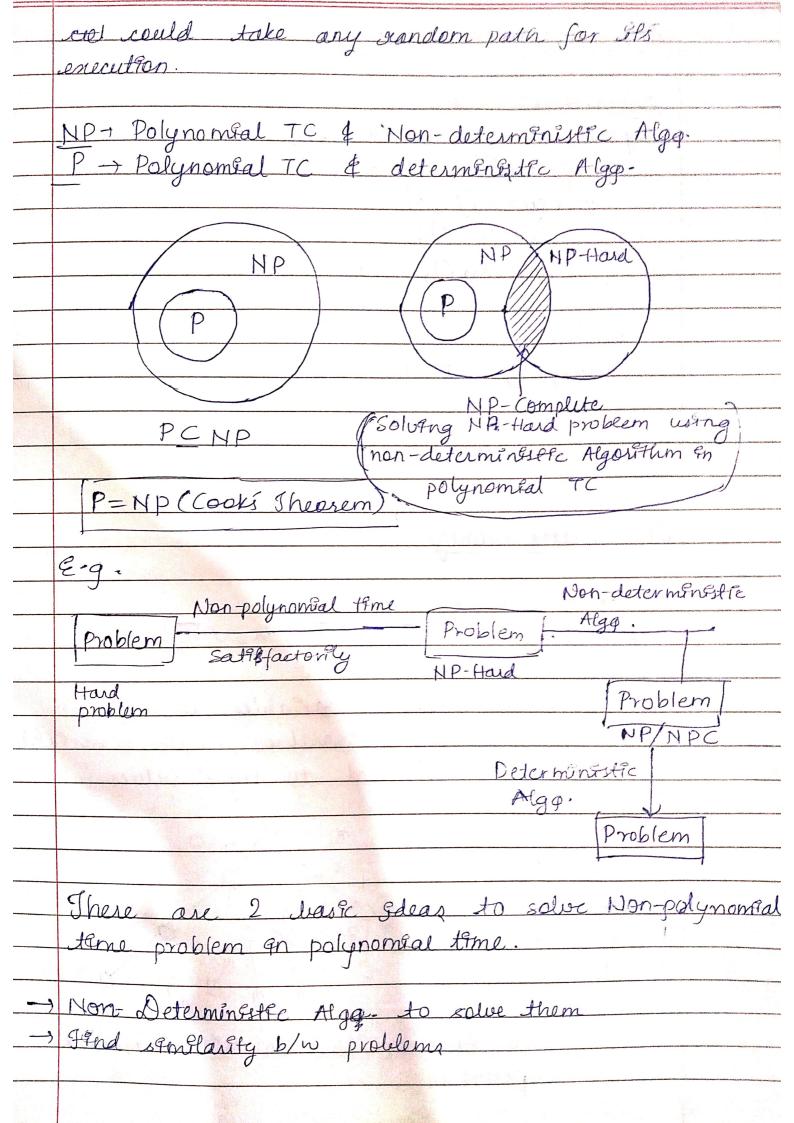
	P, NP, NP-Hard, NP-Complete
2	Deterministic algg. : No chorce Non-deterministic algg. : Chorce, success, failure
	Magorify of the scientists & nesearchers are
	Polynomial time Non-Polynomial time Alga:
	denear search - n 0/1 knapsack - 2 <sup>n</sup> Benary search - logn TSP - 2 <sup>n</sup> Investor and - 12
	Insertion sort - n² Sum of subset - 2"  Werge sort - nlogn Graph coloring - 2"  Matrix Multiplication - n³ Hamiltonian - 2"
1 1 2 5 5 5 maj	cycle
	We try to convert the TC of the algo. to unour
	Determenente Algo: Path of execution for Algorithm & same on every execution.
	Non-Determenente Alga: Path of execution & not same for algorithm in every execution of



Won-Determinister Algg.
- J J-
Algerithm N.Sa
Algorithm N Search (A, n, key) &
$\hat{j} = \text{charce}()$
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y
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ALL CARROLL AND
CNF Sater flability
$\chi = \langle \chi_1, \chi_2, \chi_3 \rangle$
$CNF = (n_1 \vee n_2 \vee n_3) \wedge (\overline{\chi_1} \vee n_2 \vee \overline{\eta_3})$
A CONTRACTOR OF THE PARTY OF TH
n, 2 2 23 for 3 variables we need to
o o o try 23 values, : for n-variables
no of well need to try 2m values.
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The sy sensiar to 0/1 knapsack
problem 70 0/1 knapsack

