	A4
	SCOA
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-11	BE comp-z
Q·I)	Enlist the basic steps of practicle sworm
Ans:	I The Pso algorithm maintains multiple potential solution of onetime.
	solution is similar evaluated by an Orbic ctive
- L P	function to determine: fitness: III) Each Solution is represented by a practical in the fitness landscope.
	the search space to find the maximum volve
	setumed by the objective functions:
•	Steps of PSO algorithm:- 1) Evaluate Fitness, of each posticle 2) Update individual v global best
	2) Update individual y global best 3) Update velocity & position of each porticle.
	These steps are repeated until some stopping
	Each Porticle's Velocity is updated using this equation.

Vi (++1) = WVi, (+) + C, &1 (xi (+) - x; (+)]. + (282 (g (+)-x; (+))]

Q.2	Differentiate in between Real valued & binary PSO
Ans :	Depulse (real valued) Pso, everything is in terms of velocity. Generally the velocity is defined in terms of probability of bit changing. 2) In binary Pso each solution in the population
	is a bindy storing Each bindry storings is of dimension n which is evoluteed to given
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 Dos meter Volves
	a porticle strings: ore updated bit-by-bit bosed
- 12.	11 on 1th current volles, the volle of the
	the best of that posticle to date & the best value of that bit to date of neighbors
	19 In DISO DIF by - bit Opacies ore will from
	istically: