Quizzes for lecture 14

•	To use genetic algorithm we usually encode a solution or individual into a binary string. This string is called genotype of the solution. To evaluate the goodness of the solution, we should decode the genotype to Only genotype evolves during evolution.
•	The goodness of a solution is called the We need a method to evaluate the of a given solution. This method may not be given in a closed form formula.
•	There are mainly three genetic operations in GA, namely, selection, crossover, and Together they produce new candidate solutions for further evolution is important for preserving the diversity of the population.
•	In PSO, each candidate solution is called a We need to keep the current position and velocity of a in the search process.
•	In PSO, each particle learns by itself. There are main two factors for learning. One is the personal factor, and another is factor. The latter is important for "information sharing".