

Artificial Intelligence Lab (CS 236)

Evaluation Assignment - 2

Time: 1 HR (9.05 AM-10.05 AM)

Marks: 10

1. Implement Genetic algorithm for the Maxone problem i.e. maximizing the number of correct answers given by the intelligent agent.

Note the following during implementation:

- a. Number of questions: 10
- b. Population size: 15
- c. Selection operator: Roulette Wheel Selection
- d. Corrosover operator: Multi-point crossover having two crossover points
- e. Mutation operator: Bit Flip Mutation
- f. Crossover probability: 0.6
- g. Mutation probability:0.5
- h. Maximum number of generations: 30

Report the solution quality and computational time.