Roll No. | | | | | | | | | | | | **Total No. of Pages : 01**

Total No. of Questions : 08

M.Tech. (ECE) (2018 Batch) (Sem.–2)

EVOLUTIONARY ALGORITHMS

Subject Code : MTEC-PE4D-18

M.Code : 76268

Time : 3 Hrs. **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE questions out of EIGHT questions.**
2. **Each question carries TWELVE marks.**

1. What is optimization? Explain the various categories of optimization in detail.

2. Explain the concept of simulated annealing with a suitable algorithm in detail.

3. Explain Multi Objective Optimization and its principles in detail.

4. Explain HPC paradigm with suitable diagram in detail.

5. What is single objective optimization? Also explain crossovers and mutation in evolutionary algorithms.

6. Explain how High Performance Computing (HPC)? Explain GPU Computing.

7. What is Generalized Pareto-optimality (GPO)? Discuss the role of evolutionary algorithms in any engineering design case study.

8. Write short notes on :

   a) GP

   b) PSO

   c) Gas

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.