M.Tech. (Computer Science & Engineering) (Sem.–3)
OPTIMIZATION TECHNIQUES
Subject Code : MTCS304-18
M Code : 76511
Date of Examination : 14-12-22

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. Discuss briefly 6 different bases for the classification of optimization problems.

2. What are various optimization algorithms? Explain.

3. Give any two real life problems and their mathematical formulation.

4. Explain with example Graphical optimization.

5. Differentiate between linear and quadratic programming.

6. How ant colony optimization is useful in engineering?

7. What is the usefulness of swarm optimization? Explain.

8. Write a note on recent trends of linear and quadratic programming in the real world.

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