

Roll No. 

Total No. of Pages : 02

Total No. of Questions : 09

MCA (Sem.-3)
OPTIMIZATION TECHNIQUES

Subject Code : PGCA1971

M.Code : 90802

Date of Examination : 06-01-23

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
4. Select atleast TWO questions from SECTION - B & C.

SECTION-A

1. Write short notes on :

- a) Normal Distribution
- b) Artificial Variable
- c) Transportation Table
- d) Linear Programming
- e) Branch and Bound method
- f) Probability
- g) LPP
- h) Decision theory
- i) Slack variables
- j) Sample space.



Signature

SECTION-B

2. Differentiate between linear and non-linear programming with help of example.
3. Describe exceptional cases in LP.
4. Write a note on duality theory.
5. Discuss brief branch and bound technique.

SECTION-C

6. Discuss optimal solutions for transportation /assignment problems.
7. Write a note on network computations.
8. Differentiate between Free Floats and Total floats.
9. Explain the concept of game with mixed strategies.

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.

