M.Sc. (DDE) 4th Semester Examination, 2020

(Old Syllabus)

Subject: Computer Science

Paper: MCS-403(B) (Optimization Techniques)

Full Marks: 22.5   Time: 1 Hour

Answer Question number 1 and any three questions from the rest.

1. What is dominance property in Game Theory? Explain with an example.   (7.5)

    Or

    What is Dummy activity? Explain with an example.

2. Find the minimum transportation cost of the given problem using Matrix minimum method. (5)

					Supply
	20	22	17	4	120
	24	37	9	7	70
	32	37	20	15	50
Demand	60	40	30	110	

3. Find the minimum assignment cost of the given problem using Hungarian method. (5)

Men Task	I	II	III	IV
A	1	4	6	3
B	9	7	10	3
C	4	5	11	7
D	8	7	8	5

4. Prove that dual of a dual is primal. (5)

5. What is critical path in critical path method? (5)

6. Explain the concept of bounded solution in LPP.   (5)