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Total No. of Printed Pages: [1]

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M. Tech. CSE (Semester -1st)
DISTRIBUTED SYSTEMS
Subject Code: MCSCE1160
Paper ID: [190208]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(4 marks each)

- Q1. Discuss the problems in query optimization.
- Q2. Define Transaction .What are the termination conditions for Transaction.
- Q3. What are various Advantages and Disadvantages of Distributed Database System?
- Q4. Explain the Types of failures in DDBMS.

Section – B

(8 marks each)

- Q5. Describe the architecture of distributed database management system along with detailed description of its major components.
- Q6. What is the concept of semantic data control? Briefly discuss about semantic integrity control and its importance.
- Q7. Write about the recovery methods of distributed transactions.
- Q8. Explain general architecture of a parallel database system & shared memory architecture.

Section – C

(10 marks each)

- Q9. What do you mean by Deadlock? Discuss in detail various control organizations for distributed deadlock detection.
- Q10. Explain 2 Phase commit protocol in detail using any example.
- Q11. Write short note on:-
 - a) Mobile Databases
 - b) Recovery Protocols.