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Total No. of Printed Pages: 1

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MSc (IT) (Semester- 2nd)
RELATIONAL DATABASE MANAGEMENT SYSTEM
Subject Code: MITE1207
Paper ID: [220414]

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. Explain any two concurrency control techniques.
- Q2. Brief up Object Relational systems.
- Q3. Brief up the types of database failures.
- Q4. Explain various features of Microsoft SQL Server.

Section – B

(8 marks each)

- Q5. Why is Normalization important for any database system? Explain and exemplify various normal forms.
- Q6. How are object oriented data models designed and queries are answered through them? Exemplify.
- Q7. In what conditions database recovery is required? Explain any three recovery techniques of your choice.
- Q8. What is data warehousing? Draw difference between OLAP and OLTP.

Section – C

(10 marks each)

- Q9. What is the importance of Database Systems? Explain its architecture and various associated data models.
- Q10. Why are distributed databases preferred over the traditional database systems? Explain its various types along with its advantages and limitations.
- Q11. What is data mining? Explain its process for any enterprise database products. Also explain the role of Data Marts for data mining.