Code: CSCS1T4

I M.Tech - I Semester - Special Supplementary Examinations March 2019

DATABASE MANAGEMENT SYSTEMS (COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours	Max. Mar	rks: 70
Answer any FIVE questions.	All questions carry equal ma	rks
1. a) Explain about different	kinds of data models.	9 M
b) List any four application	ns of DBMS.	5 M
2. a) Briefly explain about En	ntity-Relationship model.	7 M
b) Construct an ER diagra	m for banking enterprise.	7 M
3. Write about the following: a) Operations in Relationa		7 M
b) Relational calculus and	Tuple Relational Calculus	7 M

4. a) What is the difference between BCNF and 3NF? .	7 M
b) Explain 4NF with an example.	7 M
5. a) Briefly explain about RAID.	7 M
b) Briefly explain about Organization of records in files	. 7 M
6. a) Explain the General Transformation Rules for Relation Algebra Operations.	onal 9 M
b) Explain typical steps when processing a high-level qu	ery. 5 M
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7. Describe in detail the following:	5 M
7. Describe in detail the following:a) Serializability and Recoverability.	5 M 7 M
7. Describe in detail the following:a) Serializability and Recoverability.b) Desirable Properties of Transactions.	5 M 7 M
 7. Describe in detail the following: a) Serializability and Recoverability. b) Desirable Properties of Transactions. 8. Describe in detail the following: 	5 M 7 M 7 M