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Code No: CT1512

GEC-R14

II B. Tech II Semester Supplementary Examinations, January 2017

## DATABASE MANAGEMENT SYSTEMS

(Information Technology)

Time: 3 Hours

Max. Marks: 60

**Note:** All Questions from **PART-A** are to be answered at one place.

Answer any **FOUR** questions from **PART-B**. All Questions carry equal Marks.

### PART-A

**6 × 2 = 12M**

1. What is a strong entity set?
2. List DDL and DML commands.
3. What is BCNF?
4. Define cascading rollback?
5. What is dirty read?
6. What are check points?

### PART-B

**4 × 12 = 48M**

1. a) Differentiate between file system Vs. DBMS. (6M)  
b) Explain entity relationship model in detail. (6M)
2. a) Explain set operations and aggregate functions. (6M)  
b) What is a view? Explain creating view and index. (6M)
3. a) What is normalization? Explain 1NF and 2NF with examples. (6M)  
b) What is functional dependency? Explain. (6M)
4. a) Explain ACID properties with examples. (6M)  
b) Explain the concept of serializability of schedules. (6M)
5. a) Explain timestamp based protocols. (6M)  
b) Write short notes on concurrency control. (6M)
6. a) Explain the concept of shadow paging. (6M)  
b) Explain dynamic multilevel indices using B trees. (6M)

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