

Code: 9A05401

B.Tech II Year II Semester (R09) Supplementary Examinations December/January 2014/2015

**DATABASE MANAGEMENT SYSTEMS**

(Common to CSE, IT & CSS)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) What are the advantages and disadvantages of using DBMS?  
(b) What is a relationship? Explain types of relationships that exist?
- 2 How to develop an ER diagram? Write steps for developing an ER Diagram with an example?
- 3 (a) How the natural join and outer join are performed in relational DB?  
(b) Write about the evolution of CODD's rules and explain about those rules.
- 4 Write a PL/SQL program to perform the operations of library management system.
- 5 (a) Write a short note on MVD (Multivalued dependencies).  
(b) What are the inference rules for MVD? Explain.
- 6 Explain about:
  - (a) Lock granularity.
  - (b) Lock types.
  - (c) Phase locking.
- 7 Explain the terms:
  - (a) ARIES.
  - (b) Transaction rollback.
  - (c) Fuzzy check pointing.
  - (d) Logical undo logging.
- 8 Explain about different file organization techniques.

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