Code: 06MC301

MCA III Semester Supplementary Examinations September/October 2014
DATABASE MANAGEMENT SYSTEMS
(For students admitted in 2008 only)

Time: 3 hours   Max Marks: 60

Answer any FIVE questions

All questions carry equal marks
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1 (a)   Explain briefly about data base management systems. Differentiate data base management system to the file system.
  (b)   Explain ER design attributes, entity sets and their relationships.

2 (a)   Discuss about integrity constraints.
  (b)   Explain about views and its advantages.
  (c)   Explain briefly about domain relational calculus.

3 (a)   What are the aggregate and comparison operators available in SQL? Explain their operation with example queries.
  (b)   Explain about complex integrity constraints in SQL triggers.

4 (a)   What is normalization? What is the use of normalization in database design?
  (b)   Write short notes on: (i) 2NF. (ii) 3NF. (iii) BCNF.

5 (a)   Explain ACID properties of a transaction.
  (b)   Explain about view scheduling.

6 (a)   Explain about different types of locks.
  (b)   Explain about dead locks.

7 (a)   Explain about different indexing techniques.
  (b)   Explain about hash based indexing.

8   Explain about Indexed sequential access methods (ISAM).

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