

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

- 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).
