

Code: 9F00301

MCA III Semester Supplementary Examinations July 2015

DATABASE MANAGEMENT SYSTEMS

(For students admitted in 2009, 2010, 2011, 2012 and 2013 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Explain the importance of database design.
(b) Write the differences between file system and database management system.
- 2 (a) Draw and explain E-R diagram of an airline reservation system.
(b) What is E-R model? Explain in detail.
- 3 (a) What is a relationship? Explain different types of relationship in detail.
(b) What is a key? Describe different types of keys used in database.
- 4 (a) Explain different types of joins with suitable examples.
(b) What are relational set operators? Explain with examples.
- 5 (a) What are the advantages of normalization?
(b) Explain denormalization with example.
- 6 (a) Explain the concept of transaction atomicity.
(b) Explain concurrency control with locking methods.
- 7 (a) What is recovery? Also explain log based recovery.
(b) Explain remote backup system in DBMS.
- 8 (a) Briefly describe ISAM.
(b) Compare the ordered indexing with hashing.
