



**Institute of Management
JK Lakshmipat University
Jaipur
END TERM EXAMINATION
December 2015**



BBA + MBA– Sem – III
MM: 50 Marks

Course: Introduction to Database System Concepts
Time: 3 Hours
Subject Code: BBA304

Instructions: Attempt any three questions from Section A. Section B is compulsory.

SECTION A

1. Differentiate between following with suitable examples (10 marks)
 - a) Entity and Attribute
 - b) Candidate Key, Primary Key and Foreign Key
 - c) Physical and logical data independence
2.
 - a) Compare the merits and demerits of database approach with traditional file processing systems. (10 marks)
 - b) Compare functional dependence and full functional dependence with suitable examples.
3. What is a relational database? Enumerate Codd's rules for relational databases. (10 marks)
4. Explain the following relational algebra operators with syntax and examples: (10 marks)
 - a) Difference
 - b) Cartesian Product
 - c) Selection
 - d) Projection
 - e) Natural Join
5. What is MS-Access? What are the various tools available in MS-Access? Explain the different database objects available in MS-Access (10 marks)

SECTION B

6. What is Normalization? Why is it needed? Explain the various normal forms (upto BCNF) and their preconditions. Also explain the need of BCNF in spite of having Third Normal Form. (10 marks)

7. Write SQL statements for following: (Assume appropriate column and/or table names, if needed) (10 marks)

- a) Retrieve all tuples from *Employee* relation.
- b) Find total salary paid from *Employee* relation.
- c) Retrieve all details of employees whose designation is Manager.
- d) Find all employees whose name start with 'A'.
- e) Delete the *Employee* relation.