

Database Management System

Total Marks: 100

External Marks: 70

Internal Marks: 30

Credits: 4

Pass Percentage: 40%

Section A

Unit I: Introduction to DBMS-Basic DBMS terminology, Data independence. Architecture of a DBMS

Unit II: Relational Keys: Primary Key, Foreign Key, Candidate Key, Super Key etc., and Integrity Constraints

Unit III: Relational model, Relational schema Hierarchical model, and Network model.

Unit IV: Normal Forms: Functional Dependency, 1NF, 2NF, 3NF, BCNF, 4NF, 5NF

Section B

Unit V: Structured Query Language- Introduction to SQL/ MySQL, data types, DDL, DML, DCL, querying database tables, Data Definition Language (DDL)

Unit VI: Creating Tables, Inserting and updating values into a Table.

Unit VII: Data Manipulation Language: Various form of SELECT-simple, using special operators, aggregate functions, group by clause, sub query

Unit VIII: Introduction to views, Dropping a VIEW, GRANT command, REVOKE command, COMMIT and ROLLBACK

Suggested Reading:

1. James Groff, SQL The Complete Reference, 3rd Edition
2. Monika Pathak, Fundamentals of Database Management System (DBMS), Bookman Publishers
3. S.Sumathi, Fundamentals of Relational Database Management Systems, Springer