

**SARDAR PATEL UNIVERSITY**  
**Programme & Subject: M.Sc (QPM)**  
**Semester: I**  
**Syllabus with effect from: June - 2014**

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|---|----------------------|
| <b>Paper Code: QP - 102</b>                         | <b>Total Credit:</b> |
| <b>Title Of Paper: Data Base Management Systems</b> |                      |

| Unit | Description in Detail  | Weightage (%) |
|------|--|---------------|
| I    | Introduction: File processing systems, data base systems and the evolution of database technology. Aims and importance of database technology, data independence, data sharing, data integrity, data redundancy control<br>Data Modelling: Conceptual model, Logical Model, External model, Physical model   | [8]           |
| II   | INTRODUCTION TO ORACLE DBA: ;What is DBA ? Why a Company needs a DBA? Roles & Responsibilities of DBA Oracle Architecture D<br>ATABASE CREATION Different Startup Modes Different Shutdown Modes<br>Types of Database Creation Manual Method of Creation<br>TABLESPACE MANAGEMENT Introduction to Table space Types of Table space(BIG & SMALL)<br>STORAGE PARAMETERS What are segments? What are extents? Storage Parameters(Initial, Next, Min Extents, Xtents, Pctincrease) | [10]          |
| III  | USER MANAGEMENT Who are Database Users? Why to create a User? Creation of Users Allocating table space Quotas to Users Levels of Authentication<br>UNDO MANAGEMENT What is Undo? Why Undo required? Pending offline status Brief idea about Rollback segments Flashback Features<br>SPFILE & OMF What is spfile? Difference between spfile and pfile<br>NETWORKING IN ORACLE Introduction to Oracle Networking Network default location Editing Network file                   | [12]          |
| IV   | AVAILABILITY Introduction to Data Guard Types of Standby databases<br>11g New features in Data Guard RMAN Cloning Automatic Storage Management(ASM)<br>SQL-LOADER Introduction to SQL Loader Types of files Control file<br>AUDITING What is auditing? Why auditing performed? Types of Auditing Levels of Auditing<br>FLASHBACK FEATURES: Flashback Database Flashback Archive(11g)   | [10]          |

**Basic Text & Reference Books:-**

- Database System Concepts,- H.F. Korth and S. Silberschatz
- Principles of Database System -J.D. Ullman
- Introduction to Database System-C.L. Date
- Fundamentals of Database System-Elmasri & Navthe :
- Seema Kedar(2009) Database Management System, Technical Publications
- P. S. Gill(2008). Database Management Systems, I. K. International Pvt Ltd
- Das Gupta(2009).Database Management System Oracle Sql And Pl/Sql, PHI Learning Pvt.Ltd.
- S. Sumathi, S. Esakkirajan(2007). Fundamentals of Relational Database Management Systems Volume 47 of Studies in Computational Intelligence, Springer

