

MCA SEMESTER – II MCA-23 : Advanced Database Management system

Teaching Scheme (Per Week)		Examination Scheme					
		Internal		External		Total	
Th. (HOURS)	Pr. (HOURS)	Th. (MARKS)	Pr. (MARKS)	Th. (MARKS)	Pr. (MARKS)	Th. (MARKS)	Pr. (MARKS)
4	3	30	20	70	30	100	50

UNIT I (25)%**Transition Management :**

Recovery, concurrency Security Introduction, Discretionary access control, Mandatory access control, Statistical databases, Data encryption, Distributed Databases Introduction, Some Preliminaries, The twelve objectives, Problems of distributed systems

UNIT II (25)%**Structured Query Language (SQL) :**

Introduction to SQL, Constraints, DDL, DML, DCL, Create, Alter, Drop, Rename, Grant, Revoke, Select Clause, Functions, Different Types of Joins, set operators

UNIT III (25)%**PL/SQL :**

Index, View, Sequence, Trigger, Procedure, Cursor, Exception Handling

UNIT IV (25)%**Decision Support :**

Introduction, Aspects of decision support, Database design for decision support, Data Warehouses and Data marts, Online analytical processing, Data mining

Books :

1. Introduction to Database System - C. J. Date (7th edition) Low Price Edition
2. SQL, PL/SQL - Evan Bayross (2nd edition) BPB
3. Database system concepts - Henry F. Korth (3rd edition) TMH

Question Paper Scheme: Section – I Section – II

- Q.1 - Objective Type Unit I & II (11) Marks Q.4 - Objective Type Unit III & IV (11) Marks
 Q.2 - Unit-I OR Q.2 Unit-I (12) Marks Q.5 - Unit-III OR Q.5 Unit-III (12) Marks
 Q.3 - Unit-II OR Q.3 Unit-II (12) Marks Q.6 - Unit-IV OR Q.6 Unit-IV (12) Marks