PGDCA SEMESTER – II

DCA-202 : Advanced Database Management System

Teaching Scheme (per week)		Examination Scheme					
		INT		EXT		TOTAL	
Th. (hours)	Pr. (hours)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
4	--	30	--	70	--	100	--

University Examination Duration : 3 Hours.

UNIT I   **(17 Marks)**
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   **(18 Marks)**
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   **(17 Marks)**
PL/SQL: Index, View, Sequence, Trigger, Procedure, Cursor, Exception Handling.

UNIT IV   **(18 Marks)**
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:
University Examination Duration : 3 Hours.
Q.1 - Unit-I   (17 Marks)
    A. Objective/ Short Questions.
    B. Descriptive/ Long questions.
Q.2 - Unit-II   (18 Marks)
    A. Objective/ Short Questions.
    B. Descriptive/ Long questions.
Q.3 - Unit-III   (17 Marks)
    A. Objective/ Short Questions.
    B. Descriptive/ Long questions.
Q.4 - Unit-IV   (18 Marks)
    A. Objective/ Short Questions.
    B. Descriptive/ Long questions.

Note: Options should be given in all questions.