SARDAR PATEL UNIVERSITY Programme: B.Sc (Information Technology) Semester: VI

Syllabus with effect from: November - 2013

Paper Code: US06CINT01		
-	of Paper: Relational Database Management Systems - II	- Total Credit: 3
Unit	Description in detail	Weightage (%)
Ι	SQL Reports and Basics of PL/SQL	
	Overview of SQL*Plus report	
	Building a simple report	2504
	Reporting commands – remark, set headsep, ttitle, btitle, column, breakon,	25%
	compute, spool, set pause, skip, setting and clear environment.	
	PL/SQL - Introduction and advantages	
	Understanding PL/SQL Block structure	
II	Control Flow Constructs	
	Fundamentals of PL/SQL Language – character set, data types (BOOLEAN,	
	CHAR, NUMBER, DATE, VARCHAR2), variables, constants and	
	expressions (CASE expression).	25%
	Operators.	
	Conditional statement – IF and CASE statements	
	Controlling loop iterations – LOOP, EXIT, EXIT WHEN, WHILE, FOR	
	Sequential control statement – GOTO and NULL	
111	SELECTINTO statement	
III	Cursors, Security and Exception Handling	
	Working with cursor: introduction, types, attributes	
	and processing (i.e. declaring, opening, fetching and closing), using	
	parameterized cursor, using cursor FOR loop	
	PL/SQL Security : Locks, Types of locks, Levels of locks, Lock Table	25%
	Statement, Releasing Lock. Error Handling : introduction, advantages of exceptions, types of exceptions	
	Working with user-defined exceptions – declaration,	
	RAISE_APPLICATION_ERROR, Pragma EXCEPTION_INIT,SQLCODE	
	and SQLERRM.	
IV	Stored Procedures , Functions, Database Triggers and Packages	
1 V	Stored procedures – introduction, creating,	
	modifying, executing and dropping procedures	
	Stored functions – introduction, creating, modifying, executing and	
	dropping functions	25%
	Packages – meaning, advantages, creating, modifying and dropping	
	Database triggers – introduction, creating, modifying and dropping triggers,	
	types of triggers	

Basic Text & Reference Books:

- > An introduction to Database Systems: Bipin C. Desai, Galgotia Publications Pvt. Ltd.
- ➢ Ivan Bayross: SQL, PL/SQL The programming language of Oracle, 3rd revised edition, BPB Publications.
- ➤ Kevin Loney, George Koch, Orale9i The Complete Reference, Oracle Press.
- Understanding Database Management Systesm : S. Parthsarthy and B.W.Khalkar, First edition 2007, Master Academy.
- > P. S. Deshpande : SQL/PLSQL for Oracle9i, dreamtech press, reprint edition 2009

