

DATABASE MANAGEMENT SYSTEMS LAB

Instruction 3 Periods per week

Duration of University Examination 3 Hours

University Examination 50 Marks

Sessional 25 Marks

1..SQL

- a. Creating Database (Exercising commands like DDL,DML,DCL and TCL)
- b. Exercising all types of Joins
- c. Creating tables in I Normal ,II Normal , III Normal and BCNF Form.
- d. Creating table using combination of constraints.
- e. Exercising Simple to Complex Queries
- f. Usage of Stored Functions.
- g. Creating Password and Security features for an Application.
- h. Usage of File locking, Table locking facilities in an Applications

2. PL/SQL

- a. Demonstration of Blocks, Cursors, Procedures, Functions and Packages.
- b. Demonstrate Exception Handling .
- c. Usage of Triggers to perform operation on Single and Multiple Tables.
- d. PL/SQL Procedures for data validation

3.FORMS

Creation of forms for College Information System,
Library Information System and Recruitment Cell.

4. REPORTS

- a. Creation of Reports based on different queries .
- b. Creation of small full fledged Database Application spread over 3 sessions.

***Note :** The creation of sample database for the purpose of the experiments is Expected to be pre-decided by the instructor.*

Suggested Reading :

- 1. Nilesh Shah, "Database Systems Using Oracle", PHI,2007.
- 2. Rick F Van der Lans, "Introduction to SQL", Fourth Edition, Pearson Education, 2007.
- 3. Benjamin Rosenzweig, Elena Silvestrova, "Oracle PL/SQL by Example", Third Edition, Pearson Education,2004.
- 4. Albert Lulushi, "Oracle Forms Developer's Handbook", Pearson Education, 2006.