Question Bank (I scheme)

Name of Subject: Database Management (DMA)

Subject Code: 22416

Unit Test: II Course: IF4I

Semester: IV

Chapter 3-Advance features of SQL (marks)

2 Marks

- 1. Define View and write the syntax for creating view.
- 2. Describe Synonyms with example.
- 3. Define Index and list its types.
- 4. Define sequence and write the syntax for creating sequence

4 Marks

- 1. Consider following schema: Employee (emp_id, emp_name, job, hiredate, salary, comm, deptno) Write SQL commands for following statements:
 - i. Create view emp_vu20 that contains details of employees in deptno 20
 - ii. Display employee details from view emp_vu20 whose salary is greater than 50,000
 - iii. Delete view named as emp_vu20
- 2. Write SQL Commands to perform following operations on Sequence.
 - i. Create a sequence with following specifications.
 - Name : DB_SEQ
 - Starting Value : 1
 - Maximum Value : 10
 - Increment By: 2
 - ii. Modify a sequence named DB_SEQ with following specifications.
 - Increment By: 3
 - Maximum Value : 20
 - iii. Remove a sequence DB_SEQ from database
- 3. Write SQL Statement to perform following operation.
 - i. Create Synonym for Hotel table to HM.
 - ii. Create an Index on Hotel Table, use H_id as index attribute.

Chapter 4-PL/SQL Programming (marks)

2 Marks

- 1. Write PL/SQL program to display square of any number.
- 2. Write PL/SQL program which handles divide by zero exception.
- 3. Define Trigger and write the syntax for creating trigger.
- 4. Compare Function and Procedure(Any 2 Points)

4 Marks

- 1. Explain block structure of PL/SQL. List advantages of PL/SQL.
- 2. Explain conditional control structures of PL/SQL.
- 3. Define Cursor. Write step by step syntax to declare, open, fetch and close cursor in PL/SQL block.
- 4. Explain Exception Handling in PL/SQL.
- 5. Write PL/SQL program to find factorial of user defined number.
- 6. Write PL/SQL code for following
 - i. Write a function circle_area to find area of circle, use radius as input parameter
 - ii. Write a procedure to count number of employee in department, use dept_no as input parameter

Chapter 5-Database Security and Transaction Processing (marks)

2 Marks

- 1. Define Database Security. Give its Importance.
- 2. Draw and explain State diagram of Transaction.
- 3. Enlist types of Database Failures.
- 4. Write SQL Commands for following statements.
 i. Create user Jack having password as 'MSBTE@123'.
 ii. Assign create and update privileges to 'Jack'.
 - iii. Remove Update privileges from 'Jack'.

4 Marks

- 1. What is Transaction? Explain ACID properties of transaction.
- 2. Describe Grant and Revoke command with syntax and example.
- 3. Explain Lock based concurrency control.
- 4. List causes of database failures. State any two importance of Backup.