TE (Comp) Sem V (old) ADBMS N/D-2014

(OLD COURSE) **Q.P. Code : 11982**

(3 Hours) **[Total Marks : 100**

N.B. : (1) Question No.1 is **compulsory.**
(2) Attempt any four out of the remaining six questions.
(3) Assume suitable data wherever required.

1. (a) Explain in details working of hash join. **10**
   (b) Discuss the database design and implemention process with suitable diagram. **10**

2. (a) Discuss the steps of mapping of EER schemes into relational model. **10**
   (b) Explain following join operation with example. **10**
   (i) Left outer joint
   (ii) Right outer joint
   (iii) Equi Join
   (iv) Self join
   (v) Inner join

3. (a) Consider following relations database to perform DDL operation on it. **10**
   STUDENT (Sid, Name, Address, DOB)
   COURSE (Course-id, Name Dept)
   (1) Create a student and course table.
   (2) Insert 5 records in both tables.
   (3) Delete all students record whose name are stating with 'k' letter.
   (4) Modify course id.
   (5) Drop both table
   (b) Explain the concept of specialization and generalization with example. **10**

4. (a) Explain in details goals and approaches of Query optimization. **10**
   (b) Discuss following technique of data partitioning. **10**
   (1) Round Robin partitioning
   (2) Range partitioning.

5. (a) Consider the following relational database **10**
   Employee (Eid, name, dept, salary, DOJ)
   (1) Arrange all records of database departmentwise.
   (2) Display name of Employee who earn max salary in sales dept.
   (3) Find out total salary paid to the employees.
   (4) Display all employees list who have join before 07/12/2012.

(b) Explain query processing technique DBMS with suitable diagram. 10

6. (a) Explain in details various approaches of query evaluation. 10
   (b) Explain following with example. 10
   (1) Structured data
   (2) Semi-structured data.

7. Write a short notes on :– 20
   (a) Exist and NOT EXIST
   (b) XML scheme features
   (c) Three-Tier Architecture
   (d) Two Phase Commit Protocol.
