

Roll No.

Total No. of Pages : 02

Total No. of Questions : 15

MBA (2012 & Onward) (Sem.-3)

RELATIONAL DATABASE MANAGEMENT SYSTEM

Subject Code : MBA-982

Paper ID : [C1179]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A** contains **SIX** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
2. **SECTIONS-B** consists of **FOUR** Subsections : Units-I, II, III & IV. Each Subsection contains **TWO** questions each carrying **EIGHT** marks each and student has to attempt any **ONE** question from each Subsection.
3. **SECTION-C** is **COMPULSORY** and consist of **ONE** Case Study carrying **EIGHT** marks.

SECTION-A

1. Discuss 3-Tier Architecture of DBMS in detail. How physical and logical independence is achieved?
2. Explain giving examples the CODDS rules.
3. Explain different types of data models. Also, compare all the data models. Explain the procedure of choosing suitable data model.
4. Explain the procedure of achieving database security.
5. What are nested queries? Explain the different ways through which nested queries are made in Oracle.
6. Differentiate between OOD and Distributed databases.

SECTION-B

UNIT-I

7. What is meant by database? Differentiate between file based and database approach.
8. What is meant by DBMS? Explain various components of DBMS. Differentiate between DBMS and RDBMS.

UNIT-II

9. What are ERD? How are they designed? Draw ER Diagram based on following facts :

A General Hospital consists of a number of specialized wards (such as Maternity, Paediatrics, Oncology, etc). Each ward hosts a number of patients, who were admitted on the recommendation of their own GP and confirmed by a consultant employed by the Hospital. On admission, the personal details of every patient are recorded. A separate register is to be held to store the information of the tests undertaken and the results of a prescribed treatment. A number of tests may be conducted for each patient. Each patient is assigned to one leading consultant but may be examined by another doctor, if required. Doctors are specialists in some branch of medicine and may be leading consultants for a number of patients, not necessarily from the same ward.

10. Write short notes on :

- a. Cardinality
- b. Tuple
- c. NULL
- d. Data models

UNIT-III

11. What is meant by normalization? Why is it important to normalize databases?
12. Explain the procedure of normalizing databases by giving example of student database.

UNIT-IV

13. What are statements in Oracle? Explain DCL statements giving examples.
14. Differentiate between :
- a. VARCHAR and VARCHAR2
 - b. NDB and RDB.

SECTION-C

15. Write SQL queries for the following :
- a. List the employees who joined on 1May81, 31Dec81, 17Dec81, 19Jan80 in ascending order of seniority.
 - b. List the employees who are working under 'Mgr'.
 - c. List the total information of emp table along with dname and loc of all the employees working under 'Accounting' & 'Research' in the ascending order of deptno
 - d. List the details of the emps whose salaries more than the employee BLAKE.