MCA–121 **MCA–21**

M.C.A. DEGREE EXAMINATION — DECEMBER 2018.

Third Year

RELATIONAL DATABASE MANAGEMENT SYSTEM

Time : 3 hours Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. List five responsibilities of a database management system. For each responsibility, explain the problems that would arise if the responsibility were not discharged.

2. What are the different mappings that are involved in the database architecture?

3. Give some examples of the background process that Oracle can generate.

4. Explain the functionality of a client - server system.

5. Briefly describe SQL queries and subqueries.

6. How does a SQL query work with NULL values? Explain with an example.

7. How to handle exceptions for the drop table and create table scripts?

PART B — ($5 \times 10 = 50$ marks)

Answer any FIVE questions.

8. (a) Explain the types of databases used in oracle.

   (b) List the properties of relational database with a suitable example.

9. (a) Give an overview of Oracle architecture.

   (b) Explain the major functions and components of DBMS.

10. Write a SQL query, without using a with clause, to find all branches where the total account deposit is less than the average total account deposit at all branches,

    (a) Using a nested query in the from clause.

    (b) Using a nested query in the having clause.

11. What are the two approaches to accessing SQL from a general – purpose programming language. Explain embedded SQL in detail.

12. Explain in detail about the different relational operations.

13. How to create and modify tables with suitable privileges required? Explain it with an example.

14. What is DML? Explain in detail with an example.

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