Roll No. ☐☐☐☐☐☐☐☐☐☐☐   **Total No. of Pages : 02**

Total No. of Questions : 09

B.Tech. (CSE) (Sem.–6th)

RELATIONAL DATABASE MANAGEMENT SYSTEM-II
Subject Code : CS-302
Paper ID : [A0470]

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTION TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.**

SECTION-A

l. Answer briefly :

a. Define parameterized cursors.

b. What is purpose of Rename operation in relational algebra?

c. How does data security issues are handled in T-SQL?

d. What is referential integrity?

e. What are stored procedures?

f. What is QBE?

g. What is embedded SQL?

h. What is difference between procedural and non procedural language?

i. What is nested query?

j. How views are created in SQL?

SECTION-B

2. What is DBMS? Explain three level architecture of DBMS with example.

3. What are Triggers? What are different types of triggers which can be implemented on a database? Give example.

4. What is functional dependency, fully functional dependency, transitive dependency and multivalued functional dependency?

5. Compare relational algebra and relational calculus.

6. Explain data modification in QBE with proper example.

SECTION-C

7. a. List the types of integrity constraints used in Transact-SQL.

   b. Write about control structures.

8. Differentiate between the following:

   a. Sub queries and correlated queries.

   b. Super key and primary key with example.

   c. DDL and DML.

   d. SQL and PL/SQL.

9. Normalize the following table :

   SalesOrder (SalesOrderNo, Date, CustomerNo, CustomerAdd, ClerkNo, ClerkName, ItemNo., Description, Quantity, UnitPrice)