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**ST-1 (SET-V)**

**4th SEMESTER 2023-24**

**22CS007- Database Management System**

**Time allowed: 90 Minutes Max. Marks: 40**

**General Instructions:**

* **Follow the instructions given in each section.**
* **Make sure that you attempt the questions in order.**

**SECTION-A (10\*1 mark=10 marks)**

***(All questions are compulsory)***

1. In normalization, the process of decomposing a table into multiple tables to eliminate redundancy is known as:
   1. Normalization
   2. Denormalization
   3. **Decomposition**
   4. Redundancy elimination
2. When granting permissions in a DBMS, the GRANT statement is used to:
   1. **Assign privileges to a user or role**
   2. Revoke privileges from a user or role
   3. Create a new user or role
   4. Delete a user or role
3. Which of the following is an example of an entity in an ER model?
   1. Relationship
   2. Attribute
   3. Table
   4. **Customer**
4. A foreign key in a relational model:
   1. **Links two tables together**
   2. Enforces entity integrity
   3. Determines the order of columns in a table
   4. Defines a primary key in a table
5. Which architecture allows multiple users to access the database simultaneously without interference?
   1. **Client-Server architecture**
   2. Two-tier architecture
   3. Three-tier architecture
   4. Centralized architecture
6. Which SQL keyword is used to sort data in ascending order in a SELECT statement?
   1. SORT
   2. **ORDER BY**
   3. GROUP BY
   4. ASC
7. Which control structure allows the execution to jump to a specific case based on the value of an expression?
   1. IF-ELSE
   2. FOR
   3. WHILE
   4. **SWITCH**
8. Which security mechanism ensures that only authorized users can access the database?
   1. **Role-based access control**
   2. Encryption
   3. Intrusion detection systems
   4. Secure Socket Layer (SSL)
9. Which of the following statements about cursors is true?
   1. Cursors can only be used for read operations.
   2. Cursors are used to execute stored procedures.
   3. **Cursors allow for sequential access to query results.**
   4. Cursors can only be used with SQL Server databases.
10. Rectangles in ER diagram represents?
    1. Table
    2. Attribute
    3. Tuple
    4. **Entity Set**

**SECTION-B (5\*2 mark=10 marks)**

***(All questions are compulsory)***

**SECTION-C(Coding Question) (4x5 marks=20 marks)**