

1911000303020083
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (THIRD SEMESTER)
COMPUTER SCIENCE PAPER - V
303-RELATIONAL DATABASE MANAGEMENT SYSTEM-I

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF SCIENCE (THIRD SEMESTER)**
 - b. Name of the Subject : **COMPUTER SCIENCE PAPER - V
303-RELATIONAL DATABASE MANAGEMENT SYSTEM-I**
 - c. Subject Code No : **1911000303020083**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following questions (Any Seven)

14

1. Define a database system.
2. What are data models in a database context?
3. What is DDL (Data Definition Language) in a database?
4. Define a super key.
5. How does the HAVING clause differ from the WHERE clause in SQL queries?
6. Describe the purpose of the BETWEEN operator in SQL.
7. Explain the use of the AVG() function in SQL.
8. What are logical operators in SQL?

- Q.2** (a) Explain the importance of data integrity, data isolation, data consistency, and data redundancy in a database system. **6**
- (b) Explain with example primary key constraint and foreign key constraint. **6**

OR

- (a) Describe the data models and explain any two. **6**
- (b) Explain with example how define table level constraint and attribute level constraint. **6**
- Q.3** (a) Explain with example the purpose of INSERT statement. **6**
- (b) Write a note on aggregate function in SQL. **6**

OR

- (a) Explain with example where and order by clause. **6**
- (b) Write a note on relational operator in SQL. **6**
- Q.4 Attempt (any Six) **12****

Employee

(e_id (PK), e_name, e_gender, e_bdate, e_designation, e_salary, department)

Using above Table solve following queries.

- (a) Insert one record in Employee Table.
- (b) change datatype of column department to varchar2(50)
- (c) Display all information of all Employee from 'computer Science' Department in ascending order of Employee Name.
- (d) Display all Employee Name who born between 01/01/2000 to 31/12/2005.
- (e) Display all information of Employee whose name start with 'h' and end with 'a'.
- (f) Display department name with total number of employees.
- (g) Display all information of employee with highest salary.
