SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)
(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.
B.Sc. CS with AI - END SEMESTER EXAMINATIONS APRIL - 2024
SEMESTER -
22UAICT4004 - Relational Database Management System

Total Duration : 2 Hrs. 30 Mins.   Total Marks : 60

Section B

Answer any **SIX** questions $(6 \times 5 = 30$ Marks$)$

1. Summarize the functionality of the database management system with an example.

2. Write the 12 rules (codd's law) for fully functional RDBMS.

3. Relate first and second normal form with an example.

4. Write SQL commands to insert, delete, update and select data from Student table with fields sid, sname, department, mark1, mark2, mark3.

5. Summarize the data types and control structure of PL/SQL.

6. Explain cursors with suitable examples.

7. Write queries to find maximum, minimum, average salary of employees from Employee table and Display name of the employees in Uppercase.

8. Explain the degree of relationship and its types.

Section C

Answer any **THREE** questions $(3 \times 10 = 30$ Marks$)$

9. Discuss briefly about the components of E-R diagram with example.

10. Interpret relational calculus with an example.

11. Illustrate the Normalization process with an example.

12. Create a table Employee with necessary fields, like Empno (primary key), name, designation, etc., and write SQL queries to perform the following operations on the table. Add a column 'department' to the Employee table. Rename the column Empno as Empnum. Display the table Structure. Delete the records whose department in Accounts.

13. Explain Exception handling features in PL/SQL with an example.

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