



Fifth Semester B.E. Degree Examination, July/August 2022
Database Management System

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Discuss the advantages of using the DBMS approach. (06 Marks)
b. Explain three-schema architecture with a neat diagram. Why do we need mapping between schema levels? (06 Marks)
c. Explain the component modules of DBMS and their interaction with the help of a diagram. (08 Marks)

OR

- 2 a. Define the following terms: (i) Weak entity (ii) DBMS catalog (iii) Snapshot (iv) Value sets (v) Cardinality ratio (vi) Degree of a relationship (06 Marks)
b. Explain the different categories of data models. (06 Marks)
c. Write the ER diagram for an employee database. The constraints are as follows: (i) An employee works for a department (ii) Every department is headed by a manager (iii) An employee works on one or more projects (iv) An employee has dependents (v) A department controls the projects (08 Marks)

Module-2

- 3 a. What is meant by Integrity Constraint? Explain the importance of referential integrity constraint. How referential integrity constraint is implemented in SQL. (08 Marks)
b. Write the relational algebra operations to perform the following queries: (i) Retrieve the name and address of all employees who work for the "Accounts" department. (ii) Retrieve the names of employers who have no dependents. (iii) Find the names of employees who work on all the projects controlled by department number 2. (06 Marks)
c. Explain the relational algebra operations from Set theory, with examples. (06 Marks)

OR

- 4 a. Explain the ER to relational mapping algorithm with suitable example for each step. (10 Marks)
b. Write the SQL queries for the following database schema: Student (USN, NAME, BRANCH, PERCENTAGE) Faculty (FID, FNAME, DEPARTMENT, DESIGNATION, SALARY) Course (CID, CNAME, FID) Enroll (CID, USN, GRADE) (i) Retrieve the names of all students enrolled for the course 'CS_54' (ii) List all the departments having an average salary of the faculties above Rs.10,000. (iii) List the names of the students enrolled for the course 'CS_51' and having 'B' grade. (06 Marks)
c. Explain with examples in SQL: (i) INSERT command (ii) UPDATE command (04 Marks)

2. Any reviling of identification, appeal to evaluator and/or equations written eg. 4/16 = 5/10, will be treated as malpractice.

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