DCCS501

Reg. No. ☐☐☐☐☐☐☐

V Semester B.Sc. Degree Examination, February/March - 2024

COMPUTER SCIENCE

Database Management System

(NEP Scheme)

Paper : CS-C9T

Time : 2½ Hours   Maximum Marks :60

Instructions to Candidates:

Answer All the Sections.

SECTION - A

Answer any Four questions. Each question carries 2 marks.   (4×2=8)

1. What is database and DBMS?

2. Define database schema.

3. What is an Entity and Entity type?

4. What is a constraint? Mention any two constraints.

5. What is Database Anomalies ? Mention the types of Anomalies.

6. Define transaction.

SECTION - B

Answer any Four questions. Each question carries 5 marks.   (4×5=20)

7. Explain the disadvantages of traditional file processing system.

8. What is data model? Explain the Categories of data models.

9. Explain the different types of attributes with an example.

10. Explain sequential file organization.

11. Explain different Relational Algebra operations with an example.

12. Explain the desirable properties of transaction.

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SECTION - C

Answer any Four questions. Each question carries 8 marks.　　　(4×8=32)

13. Explain different DBMS users.

14. a) What is data independence? Explain the two types of data independence. (4)

    b) Explain distributed DBMS. (4)

15. What is ER diagram? Explain the different notations used in E-R diagram and construct a E-R diagram for student database.

16. What is normalization ? Explain different types of normalization.

17. Explain different DDL and DML statements with example.

18. What is concurrency control? Explain locking system for concurrency control.