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DCCS501

Reg. No.

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V Semester B.Sc. Degree Examination, December/January - 2025/26

COMPUTER SCIENCE

Database Management System

(NEP Scheme (F+R))

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer All Sections.

SECTION - A

Answer any Four questions. Each question carries 2 marks.

(4×2=8)

1. Define the terms
 - a) Database
 - b) End user
2. Define Schema and Instance.
3. What is a weak Entity and a strong Entity?
4. Define Primary Key with an example.
5. What is Functional Dependency?
6. Define Transaction.



SECTION - B

Answer any Four questions. Each question carries 5 marks.

(4×5=20)

7. What is Data Independence? Explain logical and Physical Data Independence.
8. Explain Three-Schema architecture with a neat diagram.
9. Explain Heap file organization with advantages and disadvantages.
10. Define an attribute. Explain the types of attributes with an example.
11. Write a short note on SQL JOIN Operation and its types.
12. Explain two-phase locking techniques.

[P.T.O.]



**SECTION - C**

Answer any Four questions. Each question carries 8 marks.

(4×8=32)

13. Define DBA. Explain the role and responsibilities of a DBA.
 14. Explain the advantages of DBMS.
 15. Construct an ER diagram for the company Database.
 16. What is a Relationship? Explain the types of Relationship with an example.
 17. What is Normalization? Explain 1NF and 2NF with an example.
 18. Explain different states of a transaction with a neat diagram.
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