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DCCA311

Reg. No.

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III Semester B.C.A. Degree Examination, December/January - 2025/26

COMPUTER APPLICATIONS**Database Management System****(SEP Scheme Freshers)****Time : 3 Hours****Maximum Marks : 80****Instructions to Candidates:****Answer All the sections.**

P. G. Library
SRM Institute of Science and Technology
Chennai
Bengaluru-560018

SECTION - A**Answer any Ten of the following questions. Each question carries 2 marks.****(10×2=20)**

1. Define Database Management System.
2. What is data independence?
3. Mention any two advantages of DBMS.
4. Define Weak Entity.
5. What is a relationship type?
6. Define secondary storage.
7. What is functional dependency?
8. Define tuple and attribute.
9. What is BCNF?
10. What is a transaction?
11. Write the syntax of creating a table in DBMS.
12. What is a PL/SQL Block?

SECTION - B**Answer any Five of the following questions. Each question carries 6 marks.****(5×6=30)**

13. Explain three schema architecture with a neat diagram.
14. Explain any two types of joints.
15. Explain the different types of attributes with example.

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16. Write the difference between primary storage and secondary storage devices.
17. Discuss anomalies in database with examples.
18. Explain the different integrity constraints in relational model.
19. Explain SELECT and PROJECT operators with example.
20. Explain the states of a transaction.

SECTION - C

Answer any Three of the following questions. Each question carries 10 marks.
(3×10=30)

21. Discuss actors on the scene and workers behind the scene in DBMS environment.
22. Draw an ER - diagram for a company database.
23. Explain DDL, DML and DCL commands with example.
24. a) Discuss failure types and recovery techniques. (5)
b) Explain the structure of a PL/SQL program with an example. (5)