TB2433086

Reg. No :.....

Name :.....

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024

2023 ADMISSIONS REGULAR

B.C.A SEMESTER III - CORE COURSE

BC3C07B23 - RDBMS

Time : 3 Hours **Maximum Marks : 80**

Part A

I. Answer any Ten questions. Each question carries 2 marks **(10x2=20)**

1. Describe the semi-structured data model.
2. Explain the hierarchical data model.
3. List and explain the numeric data types in sql.
4. Describe NOT NULL constraint.
5. List the possible options in 3 valued logic.
6. Describe outer join.
7. Distinguish between drop and delete.
8. Explain multi-valued dependency.
9. List conditions for first normal form.
10. Discuss consistency property of transaction.
11. Define save point.
12. Explain durability property of transaction.

Part B

II. Answer any Six questions. Each question carries 5 marks **(6x5=30)**

13. Describe the functions of data base administrators.
14. Describe schema and instance with examples.
15. Enumerate the information stored in a relational database catalogue.
16. Write a note on Triggers.
17. Explain the DCL commands.
18. Demonstrate the various anomalies caused by functional dependency.
19. Explain dependency preservation.
20. List and explain the problems associated with concurrent execution.
21. Explain the Two Phase Commit protocol.

Part C

III. Answer any Two questions. Each question carries 15 marks **(2x15=30)**

22. Describe the different views of data in a data base system.
23. With the help of examples explain the syntax and use of SELECT command in SQL.
24. Explain normalization and all normal forms in detail with the help of example relations.
25. Explain in detail the need for concurrency control and various problems associated with it.