

TB213750V

Reg. No :

Name :

BCA DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2022

(2021 Admissions Regular, 2020 Admissions Supplementary/Improvement, 2019 & 2018 Admissions Supplementary)

SEMESTER III - CORE COURSE (BCA (CLOUD TECHNOLOGY AND INFORMATION SECURITY MANAGEMENT))

BCA3B10B18 - RDBMS

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. Describe data models.
2. Describe multi-valued attribute. Give an example.
3. Distinguish between char() and varchar() data types.
4. Distinguish between super key and candidate key.
5. Describe dynamic sql.
6. Differentiate between authentication and authorization.
7. Write the syntax for Update in SQL.
8. List the criteria for second normal form.
9. Define insert anomaly.
10. Define mutual exclusion.
11. Define save point.
12. Define 2PC protocol.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Discuss the limitations of file based system.
14. Write note on data base languages.
15. Define constraints. Explain the different column level constraints.
16. Write note on grouping of data in SQL tables. Explain the SQL syntax with examples.
17. Write a note on Triggers.
18. Differentiate between fully and partial functional dependencies with examples.
19. Explain multi-valued functional dependency and 4NF.
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. Discuss on data models. Describe and compare the different data models.
23. Define data base view. Describe how views are handled in SQL. Use appropriate examples.
24. Define functional dependency. Explain the various types of functional dependency.
25. Explain the concept of transaction serializability. Distinguish the types of schedules based on serializability.