TB244903V

12.4

Reg. No :.....

Name :.....

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

2022 ADMISSIONS REGULAR

SEMESTER IV - BCA (Cloud Technology and Information Security Management) CORE

BCA4B13B18 - Database Security Fundamentals

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

Part A

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

1. Distinguish between conceptual view and external view of data.
2. Define foreign key.
3. What is formula bar in excel?
4. Give syntax and example for defining primary key.
5. How integrity is maintained in database?
6. Write the full form of TOGAF? Explain it.
7. Define Tautology in sql injection attacks.
8. Expand DSL and explain briefly.
9. Distinguish between presentation layer and application layer in three tier architecture.
10. Define Data Mining.
11. Explain the importance of data warehouse.
12. Define Online Analytical Processing.

Part B

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

13. Explain the advantages of DBMS.
14. Explain duties of database administrators.
15. Explain mechanism of multi-tier authentication.
16. Explain the basic syntax for select command with example.
17. Explain the significance of Object Linking and Embedding.
18. Distinguish between basic client-server and three tier approaches.
19. Write the importance of database monitoring.Explain its challenges.
20. Explain the types of Metadata.
21. Difference between OLAP and OLTP.

Part C

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

22. Describe and compare various database management systems.
23. Discuss authentication, authorization and auditing mechanisms in oracle database.
24. Discuss the concepts of Security Testing .
25. Describe Patch management and its process flow.