



22103087

QP CODE: 22103087

Reg No :

Name :

**B.Sc/BCA DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, OCTOBER 2022**

Second Semester

Core Course - CS2CRT04 - DATA BASE MANAGEMENT SYSTEMS

(Common for B.Sc Computer Applications Model III Triple Main, Bachelor of Computer Applications)

2017 ADMISSION ONWARDS

FB598FFB

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Discuss database users.
2. What is Data Model? What are the different types of Data models?
3. What is the difference between procedural and nonprocedural DMLs?
4. What do you mean by the cardinality of a relationship?
5. What is the domain of an Attribute?
6. Write about LIKE operator with an example.
7. Explain the term UNIQUE.
8. Note out the aggregate functions.
9. What you mean by Transitive Dependency?
10. Explain Boyce-Codd Normal Form.
11. What is active state?
12. Which are the control measures used to protect the database?

(10×2=20)

Part B





*Answer any **six** questions.
Each question carries **5** marks.*

13. Discuss the main characteristics of the database approach and how it differs from traditional file systems?
14. What is the difference between logical data independence and physical data independence?
15. Explain the terms Primary Key, Candidate Key, Super Key with examples.
16. Explain the structure of ER diagram with an example.
17. Explain different data types used in SQL.
18. Explain UPDATE command with syntax and example.
19. Explain the role of functional dependency in DBMS.
20. Explain Clustering Indexing.
21. Explain a transaction and its states.

(6×5=30)

Part C

*Answer any **two** questions.
Each question carries **15** marks.*

22. Draw the system architecture of DBMS. Explain each component in detail.
23. Define constraints. Explain different constraints with example in detail.
24. Explain UNION, EXCEPT and INTERSECT commands with syntax and example.
25. Write down the informal design guidelines for relational schema.

(2×15=30)

