



QP CODE: 25019369

Reg No :

Name :

**B.Sc DEGREE (CBCS)) REGULAR/ IMPROVEMENT/ REAPPEARANCE / MERCY
CHANCE EXAMINATIONS, FEBRUARY 2025**

Fourth Semester

B.Sc Bioinformatics Model III

Core Course - BI4CRT13 - DATABASES AND THEIR MANAGEMENT

2017 Admission Onwards

CF327FE9

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Define schema and subschema.
2. Define external level.
3. How we can insert a data on hierarchichal data model?
4. What is aggregation?
5. Define the terms Degree, Cardinality, Domain and Relation.
6. Write a SQL query for creating and deleting a database.
7. How to trap an exception?
8. What are the rules for 2NF?
9. Define transitive dependancy.
10. Explain about submission tools in Genbank.
11. SWISS PROT.
12. Which are the structural database?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*



13. Differentiate between DBMS and file system.
14. Explain advantages of relational data model.
15. Explain join operator with example.
16. Which are the different types of trigger?
17. Explain implicit and explicit cursor and cursor handling attributes.
18. Explain normalization and objective of normalization.
19. Explain the integrity ruled in RDBMS, what is their role?
20. Write about International Nucleotide Collaborate Database.
21. Discuss about different types of PROSITE Databases.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Write an essay about different type of DBMS.
23. Briefly explain views, procedures and functions.
24. Explain 1NF. Check whether the given relation is in 1NF and if not convert it into 1NF.

Emp_id	Emp_name	Emp_ads	Emp_phone
101	John	Kerala	894561237
102	Jose	delhi	987456321 897456321
103	james	kanpur	963258741 789654123
104	george	goa	589647123

25. Write an account on protein databank with example.

(2×15=30)

