



QP CODE: 25047256



25047256

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

M Sc BIOINFORMATICS

Core Course - BT010303 - DATABASE CONCEPTS & BIOLOGICAL DATABASES

2019 ADMISSION ONWARDS

FC1B8469

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Explain logical Level data independence.
2. Explain Boyce Codd Normal Form.
3. What is non procedural language?
4. Explain Exception section in PL/SQL Block.
5. What is PHP?
6. Explain the concept of Arrays.
7. What do you mean by primary databases?
8. Which all the experimental methods are used to elucidate 3D structures that are available in PDB?
9. What is FSSP?
10. What all information is available in GPCRdb receptor page?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Explain about different DML commands with example.
12. Explain about constraints in Database.
13. Explain the use of Triggers.
14. Comment on Run time Exception in PL/SQL.
15. Explain about conditional statements in PHP.





16. Explain how to create a database and add a table in MySQL.
17. Give an account of Swissprot/Uniprot database.
18. What all information about a gene is available in Genecards?

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain basic features of a Database. Discuss its advantages and disadvantages.
20. Explain the use of Functions and procedures in PL/SQL with example.
21. Write an appreciation on the role of NCBI in supplementing life science research.
22. Explain the basis of protein classification in Pfam. What are the differences between Pfam and ProDom?

(2×5=10 weightage)

