



QP CODE: 26019249



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc BIOINFORMATICS

ELECTIVE - BT800403 - DATA MINING IN BIOINFORMATICS

2019 Admission Onwards

ACD772CA

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Enlist any two applications of datamining in biology.
2. What are predictive methods in datamining?
3. Enlist any three issues is datamining.
4. Differentiate between facts and dimensions.
5. Enlist any three classifiers used in datamining.
6. How the color schemes of a microarray image give out information about gene expression?
7. Define reference genome.
8. Comment on the principle behind Chip-seq.
9. What do you mean by RNA-seq?
10. What is de novo genome assembly?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Describe the applications of datamining in bioinformatics.
12. Describe data integration process.
13. Data warehousing is an integral part of research in many areas. Why?





14. Explain the concept of association rule mining.
15. How if-then rules in decision trees work?
16. Discuss the steps involved in a microarray experiment.
17. Explain normalisation of microarray image.
18. Discuss the applications of phylogenetic analysis.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain data preprocessing. Discuss the data reduction approaches.
20. Explain association rule mining. What are its applications in biology?
21. Explain decision trees and its attributes. What are its applications?
22. Discuss Metagenomics. Why its considered to be an important field?

(2×5=10 weightage)

