

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2025

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19PBOT3C09 - BIOTECHNOLOGY AND BIOINFORMATICS

(Botany)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-AAnswer any ***four*** questions. Each question carries 2 weightage.

1. Discuss Composition of MS medium.
2. Describe Measurement of growth of cells in suspension culture.
3. Discuss about DNA Profiling.
4. Make a short note on TIGR and expand TIGR.
5. Compose the relevance of Cheminformatics.
6. Make a note on application of computer in science with special reference to biology.
7. Prepare the relevance of Open Archive Initiative.

(4 × 2 = 8 Weightage)**Part-B**Answer any ***four*** questions. Each question carries 3 weightage.

8. Illustrate types of bioreactors
9. Summarize Ovule culture
10. Describe in detail Human Genome Project
11. Describe in detail Vector depended and independent method gene transfer
12. Make a note on importance of bioinformatics.
13. Prepare the methods for deriving the secondary data.
14. Prepare a note on HTTP, HTML and URLs.

(4 × 3 = 12 Weightage)**Part-C**Answer any ***two*** questions. Each question carries 5 weightage.

15. Make a note on micropropagation, cryopreservation and synthetic seeds.

16. Describe different kinds of vectors and their role in rDNA technology.
17. Analyse the creation of Dolly. Explain ethics of cloning.
18. Make detailed account comparative modelling and its tools.

(2 × 5 = 10 Weightage)
