

22P331

(Pages: 2)

Name:

Reg.No:

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P BOT3 C09 - BIOTECHNOLOGY AND BIOINFORMATICS

(Botany)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. Describe Micronutrients.
2. Explain Growth profile of callus culture.
3. Express RT- PCR and its applications.
4. Make a brief description of functional genomics.
5. Make a note on TIGR.
6. Prepare a note on the scope and prospects of computer in biology.
7. Make a note on free software movement.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Illustrate Types of bioreactors.
9. Make a note on Clonal propagation and somaclones.
10. Explain construction and screening of cDNA libraries.
11. Analyse ethics of cloning.
12. Make a short note on scope of bioinformatics.
13. Prepare the importance of RasMol in protein studies.
14. Design HTTP with neat diagram.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Summarize organ culture.

16. Describe Human Genome Project. Discuss its methodology and significance.
17. Explain any Vectorless method of gene transfer technique.
18. Prepare an essay on Emerging areas of Bioinformatics and application of bioinformatics in biology.

(2 × 5 = 10 Weightage)
