

3rd semester M.Sc Degree examination, November/December 2007
Biotechnology
BTP-301 : Plant Biotechnology

Time: 3hours Max.Marks:80

SECTION A (5*3)

Write brief notes on any five of the following

1. Plant tissue culuture certification.
2. Micronutrients.
3. Binary vector.
4. Random primer.
5. Electroporation.
6. Osmogenes.
7. polyhydroxyalkonates.

SECTION B (4*5)

Answer any four of the following

8. Explain the advantages of micropropagation.
9. Write about the technique of cryopreservation.
10. Write a brief account on chloroplast transformation.
11. Discuss the significance of rice genome project.
12. Write a note on heat shock proteins
13. Explain the current status of transgenic plants in India .

SECTION C (3*15)

Answer any three of the following

14. Describe the technique of somatic hybridization and its significance.
15. Explain the methodology for selecting and screening of transgenics for herbicide resistance in plants.
16. Discuss the recent methods of genomic studies in plants.
17. Discuss the strategies for yield improvement in plants using transgenic plants.
18. Explain the technology for production of therapeutic proteins in plant cells.