

3rd semester M.Sc Degree examination, December 2010
Biotechnology
BTP-301 : Plant Biotechnology

Time: 3hours Max.Marks:80

SECTION A (5*3)

Write brief notes on any five of the following

1. Homozygous lines.
2. cryopreservation.
3. 35 s promoter.
4. Electroporation.
5. Phylogeny.
6. Prolamines.
7. Plant bodies.

SECTION B (4*5)

Answer any four of the following

8. What are the applications of somoclones.
9. Discuss the types and importance of reporter genes.
10. Explain the designing of expression vectors.
11. Elaborate on rice genome project.
12. Describe transgenic strategies for stress tolerance in plants.
13. Write an account on heat shock proteins.

SECTION C (3*15)

Answer any three of the following

14. Describe the micropropagation technology and its applications with suitable examples.
15. Give an account of molecular markers used in plant breeding.
16. Describe the production of therapeutic proteins using transgenic technology.
17. Discuss the transgenic approach for plant improvement.
18. Discuss agrobacterium mediated plant transformation.