

Code :R7312305

R7

III B.Tech I Semester(R07) Supplementary Examinations, May 2011
PLANT BIOTECHNOLOGY
(Biotechnology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. What are secondary metabolites? What is the biosynthetic origin of secondary metabolites? Why is it synthesized and how it is regulated in plants?
2. Write in detail how herbicide resistant plants can be produced for Triazines and Phosphinothricine.
3. What are somaclonal variations? Discuss their application with suitable examples.
4. Discuss the global status of abiotic stress resistant transgenic crops.
5. Give an example of the first metabolic engineering of secondary metabolism in plants and discuss in detail.
6. What do you mean by surface sterilization of explants? Discuss the procedure for establishment of in vitro culture.
7. Describe about the method for the expression of foreign proteins in transgenic plants.
8. Give a detailed outline of plant transformation technology and describe different methods.
