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B.Tech III Year I Semester (R09) Supplementary Examinations December 2015 PLANT BIOTECHNOLOGY

(Biotechnology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions All questions carry equal marks

- 1 Write the following:
 - (a) Callus culture.
 - (b) Organogenesis.
- 2 Discuss in detail about the Somaclonal variations and their applications.
- 3 Write an account on the models used for the mass cultivation of plant cells.
- 4 Answer the following:
 - (a) Viral vectors.
 - (b) Chemical methods of gene transfer methods.
- 5 Describe the strategies used for the development of Glyphosate resistant plants.
- 6 Discuss the mechanisms used for the development of transgenic plants overcoming stRanker temperature stress.

- 7 Answer the following:
 - (a) Industrial enzymes.
 - (b) Edible vaccines.
- Write an account on the metabolic engineering of secondary metabolites. 8