

Total No. of Pages: 01
B. Tech. (Biotechnology)
Mid Semester Examination

Roll No.
Sixth Semester
(March -2019)

Paper: Plant Biotechnology
Time: 1.30 hours

BT-302
Max. Marks: 20

Attempt all questions.

- Q1. Define explants. Describe different methods of plant tissue culture. (3)
- Q2 Describe the method of protoplast fusion and development of somatic hybrid. Describe methods for the selection of hybrid cells. (4)
- Q3. What are the different methods of explants and media sterilization. What is the role of media in plant development? (3)
- Q4. What is Cryopreservation? Discuss approaches for invitro conservation of germplasm. Explain the role of DMSO in cryopreservation. (4)
- Q5. What are androgenic haploids? What is their importance in crop improvement? (2)
- Q6. What are secondary metabolites? What are the different types of Industrial fermenters used for mass production of industrially important compounds? Explain recent advancements in this field. (4)