

Roll No.

Y – 3149 (A)
M.Sc. (Botany) (Fourth Semester) (SPECIAL) EXAMINATION,
August 2021
(SECOND CHANCE)

Paper – 402

**PLANT BIO-TECHNOLOGY : INVITROCULTURE GENETIC
ENGINEERING AND IPR**

Time : Three Hours

Maximum Marks : 85

Minimum Pass Marks : 29

Note—Attempt *all* questions.

1. Describe the techniques of tissue culture with special emphasis on cell culture. 17
2. Give a brief note on Intellectual property rights (IPR) and its applications. 17
3. Describe methods for isolation and purification of DNA. 17
4. What are cloning vehicles ? Discuss salient features of plasmids. 17
5. Write a brief note on application of r-DNA technology in plant improvement. 17