Roll	No.	:	

Total No. of Questions: 11

[Total No. of Printed Pages : 3

BPF-2239

M.Sc. (Final) Examination, 2022 BIOTECHNOLOGY

Paper - V

(Cell and Tissue Culture)

Time: 3 Hours [Maximum Marks: 75

Section-A (Marks: $2 \times 10 = 20$)

Note: Answer all ten questions (Answer limit 50 words). Each question carries 2 marks.

Section–B (Marks : $5 \times 5 = 25$)

Note: Answer all five questions. Each question has internal choice (Answer limit200 words). Each question carries 5 marks.

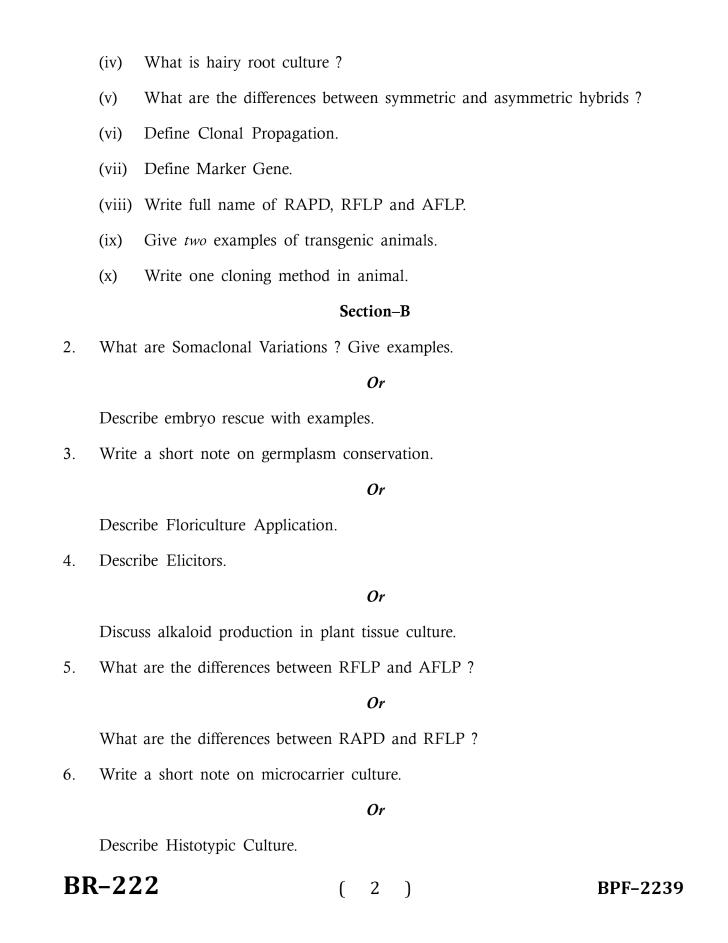
Section–C (Marks: $10 \times 3 = 30$)

Note: Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

- 1. (i) Define 'Callus'.
 - (ii) Explain the role of 'Gottlieb Haberlandt' in plant tissue culture.
 - (iii) Write the role of 'Skoog and Miller' in plant tissue culture.

BR-222 (1) BPF-2239 P.T.O.



Section-C

- 7. Write the history of plant tissue culture.
- 8. Describe the forestry application.
- 9. Describe alkaloid production in PTC.
- 10. What are the applications of plant tissue culture in the field of plant pathology?
- 11. Describe the biology of culture cells.