



Faculty of Agriculture
Rajarata University of Sri Lanka
Puliyankulama

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Bachelor of Science Honours in Agriculture [2019/2020]
Year III Semester II - End Semester Examination – Jan./ Feb. 2025

PS 3213 – Biotechnology
Part II (Essay)

Instruction: Answer all questions.

Time: 01 hr.

Total marks: 50

- 1) Based on your knowledge of rDNA technology, briefly explain the main steps in the genetic engineering process of synthesizing a transgenic chilli variety resistant to drought stress. Use appropriate examples and illustrations whenever necessary.

(25 marks)

- 2) If a gene transformation has been done using the vector pBR322, explain the procedure of screening positive transformants. Use appropriate diagrams in your explanation.

(25 marks)

