



Faculty of Agriculture
Rajarata University of Sri Lanka
Puliyankulama

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

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PS 3217 – Applied Microbiology
Part II (Essays)

Instructions: Answer all questions
Each Question carries equal marks

Time: 1 hr.

Total Marks: 50

1. Bacteria such as *Escherichia coli* need amino acids to survive. One of the amino acids they need is tryptophan. Explain the regulation of *trp* operon in *Escherichia coli*.
(25 marks)
2. Discuss the importance of using *Rhizobium* spp., *Trichoderma* spp. and Mycorrhizae in sustainable agricultural practices.
(25 marks)