



University of Ruhuna- Faculty of Technology
Bachelor of Biosystems Technology
Level 4 (Semester II) Examination, November/December 2025
Academic year 2023/2024

Course Unit: BSTF4222 Pest Controlling Technology (Theory) Duration: 1.5 hours

.....
Directions to Candidates

- Answer **ONLY THREE (03)** questions.
- Use a given booklet for answering the questions.
- Begin each answer on a new page

.....

1.

- Describe the role of a Biosystems Technologist in the development of biopesticide.
(50 marks)
- Propose an innovative biopesticide concept that would be suitable for use in Sri Lanka.
(50 marks)

2.

- Explain the following concepts.
 - Economic Threshold Value (ETV) (30 marks).
 - Integrated Pest Management (IPM) (20 marks).
- Using relevant examples, discuss how modern and emerging technologies can be integrated into IPM to improve pest monitoring and control (50 marks).

3.

- A maize plant was found in the field with the symptoms of phyllody and little leaf.
 - Write the causative agent of these symptoms. (10 marks)
 - Describe the methods by which the above causative agent is spread. (15 marks)
 - Explain the methods that can be used to control the disease caused by this agent.
(25 marks)
- Differentiate between downy mildew and powdery mildew (50 marks).

4.

a) Describe the mass trapping technique for pest control, provide suitable examples of its application, and discuss how it contributes to minimizing pesticide use. (40 marks)

b) Prepare a cultural pest-management strategy for a vegetable field targeting insects, rodents, and birds, and justify each of the practices you propose. (60 marks)

.....**End of paper**.....