



**University of Ruhuna- Faculty of Technology**  
**Bachelor of Biosystems Technology Honours Degree**  
**Level 1 (Semester II) Examination, November/December 2025**  
**Academic year 2023/2024**

**Course Unit: BST 1272 Fundamentals in Agriculture (Theory)**  
**Duration: 1.5 hours**

**Index No:**

**Instruction:**

Answer **only three (3)** questions.

**Question 1**

- a.
- i. State the key features of the Green Revolution. (30 marks)
  - ii. Briefly explain the impacts of the Green Revolution on global food security and environment. (30 marks)
- b. Discuss the comparative advantages of hydroponics over traditional farming. (40 marks)

**Question 2**

- a. Briefly explain the different methods of seed sowing. (30 marks)
- b. Describe the important management practices to ensure healthy and strong seedlings in nurseries? (30 marks)
- c. Explain primary and secondary tillage. (40 marks)

**Question 3**

- a.
  - i. List harmful effects of inorganic fertilizers. (20 marks)
  - ii. Briefly explain the impact of Integrated Nutrient Management (INM) on environmental sustainability. (40 marks)
- b. Identify the major issues associated with field crops cultivation and suggest possible solutions to overcome them. (40 marks)

**Question 4**

- a.
  - i. State the benefits of effective food packaging. (30 marks)
  - ii. Briefly discuss the different novel food packaging technologies. (30 marks)
- b. Explain the importance of grading as a key function in agricultural marketing. (40 marks)

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