



**University of Ruhuna - Faculty of Technology**  
**Bachelor of Biosystems Technology**  
**Level 2 (Semester II) Examination, November/December 2025**  
**Academic year 2023/2024**

**Course Unit: BST 2212 – Conservation Technologies (Theory)**  
**Duration: 1.5 hours**

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**INSTRUCTIONS:**

**Number of pages: Two (2)**

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

**Question No. 01**

- a. List the major causes of natural resource depletion in developing countries. (20 marks)
- b. Briefly discuss the impacts of population growth and industrialization on consumption of natural resources. (40 marks)
- c. Propose a comprehensive conservation plan for Faculty of Technology that covers vegetation, water, and soil resources. (40 marks)

**Question No. 02**

- a. Analyze threats facing wildlife and fishery resources in Sri Lanka. (40 marks)
- a. Propose innovative and scientifically grounded solutions that a Biosystems Technologist could implement to improve the long-term sustainability of wildlife and fishery resources in Sri Lanka. (60 marks)

**Question No. 03**

Discuss an integrated, innovative energy-conservation strategy suitable for agriculture and food processing systems in Sri Lanka and explain how energy auditing and behavioural changes can support this strategy. (100 marks)

**Question No. 04**

- a. Describe how human activities contribute to the decline of forest ecosystems, and outline long-term strategies for restoration and conservation of them. (50 marks)
- b. Discuss how unsustainable agricultural practices contribute to soil degradation and propose conservation measures that farmers can adopt to improve soil health. (50 marks)

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