



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

**Course Unit: BST 2232 – Indigenous Knowledge in Biosystems Management (Written)**

**Duration: 1 hour and 30 minutes**

.....  
**Answer three (03) Questions only**

**Question 01 (100 marks)**

- I.** Using suitable examples from ancient Sri Lankan literature, explain how Indigenous communities applied medical knowledge for the treatment of both humans and animals. **(20 marks)**
- II.** Briefly explain **six (06)** main forms of traditional healthcare practices found in Sri Lanka. **(30 marks)**
- III.** Critically assess the threats posed by globalization and commercialization to Indigenous medical knowledge and propose strategies for safeguarding such knowledge for future generations. **(50 marks)**

**Question 02 (100 marks)**

- I.** Point out **four (04)** key features of ancient irrigation systems in Sri Lanka, highlighting their ecological suitability. **(20 marks)**
- II.** List **six (06)** important ways the “kattakaduwa” helps the ancient tank systems of Sri Lanka function effectively. **(30 marks)**
- III.** Discuss the relevance of traditional irrigation and watershed management knowledge to current water-related challenges in Sri Lanka. In your answer, compare Indigenous and modern approaches. **(50 marks)**

**Question 03 (100 marks)**

- I. List out the difficulties encountered in smoked fish production in Sri Lanka. (20 marks)
- II. Briefly explain the challenges associated with traditional oil extraction methods. (30 marks)
- III. Explain how the protection of Indigenous Knowledge supports innovation and scientific development. (50 marks)

**Question 04 (100 marks)**

Ancient Sri Lankans used traditional knowledge and practices to care for their forests without destroying them. Discuss how we could use such traditional practices today to help solve the problems of deforestation and loss of wildlife.

@@