

University of Ruhuna- Faculty of Technology
Bachelor of Biosystems Technology Honours Degree
Level 3 (Semester I) Examination, June 2023
Academic year 2020/2021

Course Unit: BST 3113 Environmental monitoring and waste management (Written)
Duration: 2 hours

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- All symbols have their usual meanings.
 - Answer **Four (04)** questions.
1. Converting solid waste into energy is found to be one of the possible solutions for solid waste management. Discuss the advantages and disadvantages of implementing this technology in Sri Lanka. (25 Marks)
 2.
 - a. What are the basic water quality parameters checked at the discharge point of the industrial wastewater treatment plant at Biyagama EPZ? (5 Marks)
 - b. Briefly explain the process of industrial wastewater treatment carried out at the Biyagama EPZ. (20 Marks)
 3. Discuss the latest technologies used in waste management in the modern world. (25 Marks)
 4.
 - a. List out three benefits of environmental monitoring. (6 Marks)
 - b. Mention methods of environmental monitoring and parameters measured by each method. (6 Marks)
 - c. Mention five methods used to manage gaseous waste? (5 Marks)
 - d. List out main characteristics of anaerobic composting (8 Marks)
 5. Write short notes on the followings.
 - a. Lethal concentration (LC₅₀) (12.5 Marks)
 - b. Importance of environmental certification (12.5 Marks)