

University of Ruhuna- Faculty of Technology

Bachelor of Biosystems Technology Honours Degree Level 1 (Semester I) Examination, July 2023 Academic year 2021/2022

Course Unit: BSTF 4162 Nursery Management Technology (Theory)
Duration: 1.5 hours

Index No:

Answer only 3 questions.

Question 01

i. What is meant by a nursery?

(10 marks)

ii. Briefly explain the importance of a nursery?

(30 marks)

iii. You are invited to make a commercial vegetable nursery in Matara district. Explain the factors to be considered when selecting a site for the nursey. (60 marks)

Question 02

i. Write short notes on the followings.

(20 marks)

- a. Fertigation in nurseries.
- b. Site specific nutrient management for nurseries.
- ii. Briefly discuss the bio-fertilizer production process.

(40 marks)

iii. Discuss advantages and disadvantages of using biodegradable poly bags for a plant nursery.

(40 marks)

Question 03

i. What is a potting media?

(10 marks)

- ii. Briefly discuss on the following topics based on the potting media of a nursery. (40 marks)
 - a. Testing methods of potting media.
 - b. Treatments for potting media.
- iii. Explain the properties of ideal potting media.

(50 marks)

Question 04

i. Comment on the following statements.

(40 marks)

- a. The frequent irrigation ensures seeds germination in nurseries.
- b. High wind speed increases crop water requirement.
- c. Mist/ fog irrigation will increase humidity level.
- d. Drip irrigation is one of the most efficient water and nutrient delivery systems for plants.
- ii. Discuss the advantages and disadvantages of using poly tunnel as a plant propagation structure in Kamburupitiya area. (60 marks)

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