

University of Ruhuna- Faculty of Technology
Bachelor of Biosystems Technology Honours Degree
Level 4 (Semester I) Examination, July 2023
Academic year 2021/2022

Course Unit: BSTF 4152 Horticulture Technology (Theory) Duration: 1 and ½ hours

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Instructions:

Answer **3 questions** only

Mobile phones are not permitted

1. Briefly discuss the following
 - (i) Importance of nursery management for horticulture plants (20 marks)
 - (ii) Factors affecting on fertilizer application rate of nursery plants (30 marks)
 - (iii) Different methods to improve nutrient use efficiency in plant nurseries (50 marks)

2. (i) What are the different biotic and abiotic factors that influence on crop production? (10 marks)
- (ii) Define following terms
 - a) Integrated nutrient management
 - b) Earthing-up
 - c) Thinning (30 marks)
- (iii) How do you improve the productivity of horticultural plants through proper use of agronomic practices? (60 marks)

3. Briefly discuss
 - (i) Advantages of growing crops in a soilless medium with compared to the crops in soil (40 marks)

 - (ii) Major cultural practices to be adopted to ensure higher productivity in hydroponically grown crops in a protected house (60 marks)

4. (i) Define the term floriculture (20 marks)
- (ii) Giving examples list out the Sri Lankan floricultural product assortment (variety of products) for the export market (80 marks)

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