



**RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES**

**B.Sc. (General) Degree in Applied Sciences
Third Year Semester I Examination – June/July 2018**

**BOT 3202 – PRINCIPLES AND PRACTICE IN HORTICULTURE AND
LANDSCAPING**

Time: Two (02) hours

Answer ALL questions.

1. a) State how the word “bonsai” was derived and the country in which this art was originated. (08 marks)
b) Describe briefly the major steps involved in preparing a bonsai tree. (25 marks)
c) What are the constraints associated with floriculture industry in Sri Lanka? (20 marks)
d) Describe briefly the role of any **three (03)** major organizations involved in the floriculture industry in Sri Lanka. (18 marks)
e) Differentiate between a formal and an informal garden. State, giving reasons which one you would prefer. (14 marks)
f) What is the garden type common to Italy? State the main features you could find in this garden type. (15 marks)
2. a) List, giving examples, the layering types practiced in propagating horticultural plants. (20 marks)
b) Describe any **two (02)** listed in (a) and state the advantages of layering as a method to propagate plants. (50 marks)
c) Name **three (03)** floral preservatives widely used and explain how they help to prolong vase life of cut flowers. (30 marks)
3. a) What are the major principles followed in landscape architecture? (20 marks)
b) State the meaning of the following terms in indoor gardening.
 - i. Unity and variety
 - ii. Mobility
 - iii. Scale and proportion(30 marks)
c) “Indoor gardens improve quality of life”. Justify this statement. (50 marks)
4. “Chemicals are used to alter physiological processes in plants to obtain the desired yield”. Justify the above statement, giving examples. (100 marks)

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