

THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME – LEVEL 05
BOU3209/ BOE-5209 – HORTICULTURE
FINAL EXAMINATION
DURATION: THREE (03) HOURS

INDEX NUMBER.....

REGISTRATION NUMBER.....

Date: 25th January 2017

Time: 9.30-12.30am

This paper consists of two parts. Part A and Part B

Part A –Structured questions

Answer **all** questions.

Write answers **only** in the space provided

There are three (03) questions.

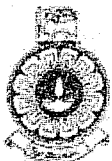
Part B-Essay type questions- You are required to answer **only four (04)** questions out of Six (06) questions given.

Part A

1. Write short answers **in the space given.**

(a) List **Five (05)** specific features of shrubs which are used in landscaping.

- 1.....
- 2.....
- 3.....
- 4.....
- 5.....



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Part B-Essay type questions-You are required to answer **only four (04)** questions out of **Six (06)** questions given.

Part A

1. Write short answers **in the space given.**

(a) List **Five (05)** specific features of shrubs which are used in landscaping.

1.....

2.....

3.....

4.....

5.....

(b) Give botanical names of **three (03)** shrubs which are used in landscaping purposes.

1.....

2.....

3.....

(c) State **four (04)** functions of Shrubs in landscaping?

1.....

2.....

3.....

4.....

(d) Write down the botanical names of **four (04)** foliage plants which can be used in a trough of a park?

1.....

2.....

3.....

4.....

(e) State **three (03)** most common diseases can be observed in the above mentioned foliage plants.

1.....

2.....

3.....

02 Write short answers in the space given.

Light is one of the major factors effecting the growth of plants under controlled environmental conditions. The light inside green houses can be controlled by active and passive methods

(a) Write down **four (04)** passive methods which can be used to increase the light intensity in green houses?

1.....

.....

2.....

.....

3.....

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4.....

.....

(b) Translocation in the phloem of a plant can be disrupted by girdling of tree bark. Write down the procedure of girdling of a tree.

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3 The table below indicates the scientific names of some of the common pests and diseases which affect on fruits and vegetables at pre harvest stage.

(a) Identify the pest/disease and fill out the blanks of the table below using appropriate words/sentences

Scientific name	Pest/ disease	Fresh produce it affects
<i>Dysmicoccus brevipes</i>		
<i>Pseudomonas solanasiarum</i>		
Ring spot (PRV)		
<i>Phylloocnistis citrella</i>		

(b) Select **two (02)** pests or diseases from the table above (3 (a)) and describe the symptoms of the corresponding pest or disease.

(i) Pest/Disease.....

.....

Symptoms

.....

.....

.....

.....

.....

(ii) Pest/Disease

.....

.....

Symptoms

.....

.....

Part B

Essay type questions

Answer only **Four (04)** questions out of **Six (06)** questions

- 1 (a) List out **three (03)** different soil-less media that could be used to grow foliage cuttings at commercial scale.
(b) Give reasons for your selection of each method for cultivating foliage plant.
(c) Discuss the advantages and disadvantages of each method of cultivation.
- 2 (a) Explain **three (03)** grafting methods which are being used in fruit crop production in Sri Lanka. Give specific examples for each grafting method.
(b) Explain the importance of current practices used by farmers to prepare field bed nurseries for vegetables.
3. Horticultural businesses involve the production of cut flowers under controlled environmental conditions.
Discuss the commercial production of orchids and anthurium in green houses emphasizing the control of temperature, irrigation and light.
4. Discuss the importance of proper postharvest handling of tomato (*Lycopersicon esculentum*) and Cabbage (*Brassica oleracea*)
5. (a) Briefly describe the agronomic practices which could be adopted in cultivating pineapple.
(b) What are the most common diseases found and their control measures in a banana cultivation?
6. Discuss the fruit nursery management in Sri Lanka with special reference to preparation of sand beds, seed extraction and pests and diseases

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