



**THE OPEN UNIVERSITY OF SRI LANKA**  
**B.Sc. DEGREE PROGRAMME – LEVEL 05**  
**BOU3209/ BTU3207 – HORTICULTURE**  
**FINAL EXAMINATION**  
**DURATION: THREE (03) HOURS**

INDEX NUMBER.....

REGISTRATION NUMBER.....

Date: 09<sup>th</sup> November 2015

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**

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

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

1.....

2.....

3.....

4.....

5.....

(b) Give botanical names of **three (03)** shrubs use for landscaping purposes.

1.....

2.....

3.....

(c) Briefly state the functions of Shrubs in landscaping?

1.....

2.....

3.....

4.....

(d) Write the botanical names of four foliage plants which can be used in a trough of a shady home garden.

1.....

2.....

3.....

4.....

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

1.....

2.....

3.....

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

(a) What are the classification systems used in classifying vegetable crops? Give **two (02)** examples for each type,

1.....

2.....

3.....

(b) Fill out the blanks of the table below using appropriate words

<b>Vegetable Production system</b>	<b>Crops grown</b>	<b>Season</b>	<b>Technology used</b>
Low country			
Mid country			
Upcountry			

(c) State **four (04)** methods used in cultivating *Anthuriums*.

1.....

2.....

3.....

4.....

(d) Illustrate the two types of Gutter cultivation used in *Anthurium* cultivation.

3. (a) Briefly explain the methods of fertilizer application?

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.....

.....

(b) Fill out the blanks of the table below using appropriate words/sentences

Nutrient	Source		Deficiency symptoms
	Commercial	Organic	
Potassium			
Phosphorous			
Magnesium			
Nitrogen			

## Part B

### Essay type questions

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

1. A leading commercial company plans to initiate an export industry of bell pepper strawberry and kang kung cuttings as a new business venture. The proposed methods are to cultivate them in three different soil-less media
  - (a) List out **three (03)** different soil-less methods that could be used to grow bell pepper, strawberry and kang kung in commercial scale.
  - (b) Give reasons for your selection of each method.
  - (c) Discuss the advantages and disadvantages of each method of cultivation.
  
2.
  - (a) Explain **three (03)** grafting methods you observed, when you visiting to the agricultural institute in Sri Lanka for improving fruit crop production. 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.
  - (a) List possible designs of plant growing structures which are used to cultivate *Gerbera* and *Dieffenbachia* foliage plants.
  - (b) Differentiate irrigation system/s that can be used in the above cultivations.
  - (c) What are the modifications that you would suggest to control the temperature and humidity inside the green house you mentioned above?
  
4. Discuss the importance of proper handling of harvested leeks (*Allium porrum*), Carrot (*Daucus carota*) and Beet (*Beta vulgaris*).
  
5.
  - (a) Briefly describe the agronomic practices which could be adopted in cultivating papaya.
  - (b) What are the most common diseases found in papaya cultivation and their control measures?
  
6. 'A lawn is a piece of land on which grass grows and it can be in a residential, commercial or recreational area'
  - (a) Explain how would you establish a lawn?
  - (b) List the importance of a hedge and differentiate between a formal hedge and an informal hedge?

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