



THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME – LEVEL 05
BOU3209 – HORTICULTURE
FINAL EXAMINATION -2017/18
DURATION: THREE (03) HOURS

INDEX NUMBER.....

REGISTRATION NUMBER.....

Date: 22nd April 2019

Time: 9.30-12.30 (pm)

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

Part A – Structured essay questions. There are only two (02) compulsory questions. Answers should be written on the question paper itself.

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 **Five (05)** features that are required in shrubs used for landscaping.

1.....

2.....

3.....

4.....

5.....

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

1.....

2.....

3.....

(c) Briefly state the functions of trees in landscaping

1.....

2.....

3.....

4.....

(d) Suppose that you are planning to construct a foliage trough in a shady area of your home garden. State the botanical names of four **(04)** foliage plants which are suitable to be grown in this trough.

1.....

2.....

3.....

4.....

(e) State three (03) common pests/diseases found in foliage plants.

1.....

2.....

3.....

2. (a) Briefly explain the methods of fertilizer application.

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(b) Complete the following Table using appropriate words/sentences

| Nutrient | Source | | Deficiency symptoms |
|-------------|------------|---------|---------------------|
| | Commercial | Organic | |
| Potassium | | | |
| Phosphorous | | | |
| Magnesium | | | |

Part B**Essay type questions**

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

1. A leading commercial company plans to initiate an export industry of bell pepper and salad leaves as a new business venture. The proposed methods are to cultivate them in two different soil-less media.
 - a) List out **three (03)** different methods each that could be used to grow bell pepper and salad leaves 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) Giving suitable examples, explain **three (03)** grafting methods usually practice in Agricultural institutes in Sri Lanka for improving production of fruit crops.
 - b) Explain the importance and 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 orchid plants.
 - b) Briefly outline the method/s of irrigation that can be used for the above cultivations.
 - c) What are the modifications that you would suggest to control the temperature and humidity inside a green house?
4. Discuss the importance of postharvest handling of leek (*Allium porrum*), and tomato (*Lycopersicum esculentum*).
5.
 - a) Briefly describe the agronomic practices which could be adopted in cultivating pineapple.
 - b) What are the common pests and diseases found in a pineapple 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.