



**SLIATE**

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

**Higher National Diploma in Technology(Agriculture)  
Second Year- 2<sup>nd</sup> Semester Examination – 2015  
AG 2209-Protected Agriculture & Floriculture.**

**Instructions for Candidates:**

Answer all questions from part I and any three (03) from part II.  
All questions do not carry equal marks

No. of questions :06  
No. of pages : 03  
Time allowed : Two (02) Hours

**Part 1**

**Question No. 01**

**(Total 12.5 marks)**

(i) Name **two** problems of open field agriculture.

**(02 marks)**

-----  
-----  
-----  
-----

(ii) Name **three** methods that can be used to increase RH in the protected houses in Sri Lanka.

**(03 marks)**

-----  
-----  
-----

(iii) Name **three** features that should be considered in selecting crops for the protected houses.

**(03 marks)**

-----  
-----  
-----

(iv) List **three** features of an ideal nursery house.

**(4.5 marks)**

-----  
-----  
-----

**Question No. 02**

**(Total 12.5 marks)**

(i) Name **two** nursery media used in the cold region / cold countries.

**(02 marks)**

-----  
-----

(ii) Write **three** advantages of hydroponic systems.

**(03 marks)**

-----  
-----  
-----

(iii) Write **two** objectives of pH regulation in hydroponic solution.

**(03 marks)**

-----  
-----

(iv) Write **five** problems related to the protected house cultivation of fruits and vegetables in Sri Lanka.

**(4.5 marks)**

-----  
-----  
-----  
-----  
-----

## Part II

### **Question No. 03**

**(Total 25 marks)**

- (i) What are the potentials to develop rose cultivation in Sri Lanka? **(05 marks)**
- (ii) “Most of the commercial cultivators are interested on growing flowers rather than food crops in Sri Lanka”. Briefly explain the influence/effect of the above activity on the nutrition and the environment in Sri Lanka. **(10 marks)**
- (iii) Briefly explain a “packing method of Anthurium flowers” for the export market. **(10 marks)**

### **Question No. 04**

**(Total 25 marks)**

(i) Write short notes on the followings.

- a. Potting of an orchid plant. **(08 marks)**
- b. Possible reasons for disease outbreak in protected houses. **(08 marks)**
- c. The importance of proper maintenance of protected nursery houses. **(09 marks)**

### **Question No. 05**

**(Total 25 marks)**

- (i) Briefly explain the “grow bag technique of hydroponic system”. **(08 marks)**
- (ii) Write an account on “preparation of vegetables for the local market in Sri Lanka” **(08 marks)**
- (iii) Explain the importance of mulching rose beds. **(09 marks)**

### **Question No. 06**

**(Total 25 marks)**

- (i) What are the important quality characters/features of foliage ornamental plants? **(08 marks)**
- (ii) What are the techniques used to minimize pest problems in protected houses? **(08 marks)**
- (iii) Briefly explain the asexual propagation methods of Anthurium. **(09 marks)**