



The Open University of Sri Lanka
Faculty of Engineering Technology
Department of Agricultural and Plantation Engineering

Study Programme	: Bachelor of Industrial Studies Honours in Agriculture/Bachelor of Science Honours in Engineering (Agricultural Engineering)
Name of the Examination	: Final Examination
Course Code and Title	: AGX6387 Plantation Crop Technology
Academic Year	: 2024/2025
Date	: 31 st January 2026
Time	: 13.30-16.30
Duration	: 3 hours

Registration No:

Index No.....

General Instructions

1. Read all instructions carefully before answering the questions
2. This question paper consists of two sections.

SECTION 1

Contains FIFTEEN (15) questions. You are required to answer all questions. Answers should be written in the space provided for each question. No additional paper is provided. You may spend about **one hour** to answer this section.

SECTION 2

Contains SIX (06) essay type questions. You are required to answer **ONLY FOUR** (04) questions. You may spend about **two hours** to answer the questions in this section.

3. It is **EXTREMELY IMPORTANT** that you do not remove the SECTION I of the question paper from the examination hall.
4. Please note that you should write your registration number in the space provided above.
5. This is a Closed Book Test (CBT).

SECTION I: Answer all questions. Use the space given under each question

1. What is meant by “Plucking” in Tea plantations?

2. Write the family and the botanical name of Rubber plant.

3. State the botanical names of three (03) Leguminous cover crops that can be seen in rubber plantations.

4. Name (03) three important characters to be considered when selecting a rubber clone for breeding.

5. What is the purpose of using “Rain guards” in rubber plantations?

6. What are the common tapping systems use in Sri Lanka?

7. List three (03) main coconut seed gardens in Sri Lanka.

8. State the ways to overcome the issues in tapping.

9. What are the three (03) main budding techniques adopted in Rubber nurseries?

10. What are the components in "Disease Triangle"?

11. What is meant by Coconut Triangle?

12. State the yield components of *Hevea*.

13. What is the criterion for selecting high quality coconut seedlings?

14. Why does tea plantations need shade?

15. State five (05) main categories of nutrient deficiency symptoms that can be found in tea plantations.



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SECTION II: Answer any four (04) questions

- (1) (a) Briefly outline the advantages of using clones in plantation crop production?
 (b) Write a brief note on “problems associated in plantation crop industry in Sri Lanka and remedial measures to overcome them”
- (2) (a) What are the yield improvement techniques in Rubber plantations?
 (b) Briefly discuss soil fertility improvement techniques in rubber plantations with examples.
- (3) (a) What are the crop management techniques in Tea plantations?
 (b) Briefly outline the importance of nursery management in tea plantations.
- (4) (a) What are the benefits of introducing intercrops for young Coconut plantations?
 (b) Write a brief note on “present status of the coconut industry in Sri Lanka”.
- (5) (a) Sri Lankan coconut germplasm can be classified into 3 main varieties, What are they?
 (b) Briefly outline the “importance of field sanitation in commercial coconut nursery”.
- (6) Write short notes on any two (02) of the following
 - i. Low Intensity Tapping Systems (LFT) with stimulation in Rubber plantations
 - ii. Benefits of rehabilitation in tea plantations
 - iii. Sloping Agricultural Land Technology (SALT)