



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

Study Programme	: Bachelor of Science Honours in Engineering (Agricultural Engineering)
Name of the Examination	: Final Examination
Course Code and Title	: AGX4404 Crop Technology
Academic Year	: 2024/2025
Date	: 9 th February 2026
Time	: 13.30-16.30hrs
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. Define the term "Aeroponics Technique".

2. List four (04) main weed management techniques use in Crop Production.

3. What is meant by "Subsistence" farming?

4. Name three (03) methods of cropping in settled agriculture.

5. What are the three (03) main soil fertility regenerating systems use in agriculture?

6. What is the family and botanical name of Tea plant?

7. (a) How do you identify "Bacterial wilt" in Tomato cultivation?
(b) Give two (02) eco-friendly control measures.

8. What are the characteristics of a commercial nursery?

9. Give three (03) advantages of using clones in tea plantations.

10. Define the term "Tillage".

11. What are the factors affecting the choice of a tillage system in crop production?

12. What are the four (04) main components of organic farming?

13. Name four (04) plant propagation techniques use in crop production.

14. What are the main methods of fertilizer application in crop fields?

15. State four (04) important systems of farming.

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SECTION II: Answer any four (04) questions

- (1) (a) What is organic farming?
 (b) Briefly discuss the modern approach to organic farming.
- (2) (a) Define the term "Disease triangle".
 (b) Briefly explain the importance of plant disease management in crop production
- (3) (a) What is meant by problem soils?
 (b) Briefly outline the factors (criteria) to be considered in land levelling for crop cultivation.
- (4)(a) What are the non-circulating methods in hydroponics?
 (b) Briefly outline the limitations of using hydroponics technique in crop production.
- (5) (a) What is meant by modern agriculture?
 (b) Briefly outline the problems associated with modern intensive farming
- (6) Write short notes on any two (02) of the following
 - i. Crop improvement techniques that can be use in rubber plantations
 - ii. Disadvantages of using inorganic fertilizer
 - iii. Advantages of using Bio-pesticides in crop production