



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

Study Programme	: Bachelor of Industrial Studies Honours (Agriculture)
Name of the Examination	: Final Examination
Course Code and Title	: AGI4362 Environmental Agriculture
Academic Year	: 2024/2025
Date	: 1 st March 2026
Time	: 1.30 p.m. – 4.30 p.m.
Duration	: 3 hours

General Instructions

1. Read all instructions carefully before answering the questions.
2. Answers should be in clear hand writing.
3. Do not use red color pen.
4. This question paper consists of **two (02) sections**.

Section 1

- Consists of **fifteen (15)** questions in **four (04)** pages.
- Answer all questions.
- Each question carries 05 marks.
- Write answers only in the space provided.
- Please do not remove the question paper from the examination hall.
- You may spend **one (01)** hour to answer this section.

Section 11

- Contain **six (06)** questions.
- Answer any **four (04)** questions.
- You may spend **two (02)** hours to answer this section.
- All questions carry equal marks.
- Answer for each question should commence from a new page of the answer book.

Index number

Section 1

1. Define the term “ecosystem”

.....

.....

2. List (i) biotic and (ii) abiotic components of an ecosystem.

i. Biotic components

ii. Abiotic components

3. Write **two (02)** examples for,

i. Man made ecosystems.

.....

ii. Natural ecosystems.

.....

4. Differentiate;

(i). Biosphere from Lithosphere

.....

.....

(ii). Atmosphere from Hydrosphere

.....

.....

5. Indicate the group of organisms responsible for following ecosystem services.

(i). Capturing the Sun's energy.

.....

(ii). Decomposition of plant and animal origin dead material.

.....

6. Write the single term that used to denote following consumer categories in ecology.

(i). Animals that feed on plants

(ii). Animals that eat animals

(iii). Animals that eat animals after killing

(iv). Animals that feed on animals without killing

(v). Animals that eat plants and animals

7. What is meant by “**trophic level of an organism**” in ecology?

.....

.....

8. Differentiate photo autotrophs from autotroph chemo.

Photo autotrophs

.....

Autotroph chemo

.....

9. What is meant by climate change?

.....

.....

.....

10. Briefly explain the reason for global warming.

.....

.....

11. Differentiate between point source pollution and non-point source pollution

Point source pollution

.....

Non-point source pollution

.....

12. List **five (05)** air pollutants.

i.

ii.

iii.

iv.

v.

13. Briefly explain the reason for Eutrophication?

.....

.....

14. Name the **three (03)** pillars of sustainability.

- i.
- ii.
- iii.

15. Briefly explain the importance of environmental impact assessment (EIA)?

.....

.....

end of the section 1



Study Programme : Bachelor of Industrial Studies Honours (Agriculture)
Name of the Examination: Final Examination
Course code and title : AGI4362 Environmental Agriculture
Academic Year : 2024/2025
Date : 1st March 2026

Section 11

1. Describe the importance of Nitrogen cycle in Agriculture
2. Describe **five (05)** Agricultural practices which cause air pollution.
3. Discuss the negative impact of climate change on agriculture.
4. Explain **five (05)** sustainable agricultural practices found in Sri Lanka.
5. Discuss **five (05)** importance of wetlands in Sri Lanka.
6. Explain the major steps of an environmental impact assessment process.

(each question carries 25marks)