

UGANDA MARTYRS



UNIVERSITY

NGETTA CAMPUS
FACULTY OF AGRICULTURE

CERTIFICATE IN AGRICULTURE PRODUCTION

CAG 2103: SOIL CONSERVATION AND LAND RECLAMATION
FINAL ASSESSMENT

ACADEMIC YEAR 2023/2024 SEMESTER ONE

CAP II

DATE: 8th/DEC/2023

TIME ALLOWED: 3 HOURS (9:00am-12:00pm)

INSTRUCTIONS:

- *Attempt any four questions of choice*
 - *All questions carry equal marks*
 - *Start every question on a new page*
 - *Do not write anything on the question paper*
-

Question 1:

Soil conservation is key to environmental sustainability;

a) Briefly discuss the following;

- (i) No till farming (3marks)
- (ii) Cover cropping (3marks)
- (iii) Mulching (3marks)
- (iv) Terrace farming (3marks)
- (v) Contour farming (3marks)

b) Give reasons why it is recommended to practice soil conservation to farmers. **(10 marks)**

Question 2:

a) Discuss the effects of soil erosion in Uganda **(13 marks)**.

b) write short notes on the following;

- (i) sheet erosion (3marks)
- (ii) rill erosion (3marks)
- (iii) gully erosion (3marks)
- (iv) wind erosion (3marks)

Question 3:

Irrigation is the artificial application of water to the soil through various systems of tubes, pumps and sprays;

a) How is irrigation practice relevant to the farmers in your community today **(15 mark)**.

b) Discuss the advantages of a drip irrigation system in Uganda **(10 marks)**.

Question 4:

Drainage is the natural or artificial removal of a surface water and sub-surface water from an area with excess of water.

- (a) Explain any five (5) importance of a drainage in a farm **(10 marks)**.
- (b) Discuss the merits and demerits of sub-surface drainage to a farmer. **(15 marks)**

Question 5

a) As a student of Umuhoze who have been in Ngetta for approximately 4 month, Do you think there has been pollution taking place in Ngetta-Lira district. If **YES** Discuss the various causes under natural and human power, if **NO** defend your statement **(15 Marks)**.

b) What are the major causes of ozone layer depletion in Uganda? **(10 marks)**

Question 6

(a) Discuss the different cultural methods practiced in Uganda to conserve soil and water management **(10 marks)**

- (b) Mention any five (5) mechanical methods of soil and water erosion control practiced in Uganda. **(10 marks)**

Question 7

- (a) Discuss the major sources of water pollution in your locality. **(10 marks)**
(b) What are the major effects of pollution to our environment **(10 marks)?**

Question 8

- (a) Discuss the benefits of soil conservation in relation to sustainable agriculture. **(10 marks)**
(b) What are the major causes of soil erosion in Uganda? **(10 marks)**

.....**Good Luck**.....