

Uganda Certificate of Lower Secondary Education

PRINCIPLES AND PRACTICES OF AGRICULTURE 2023

SENIOR 111

2 HOURS

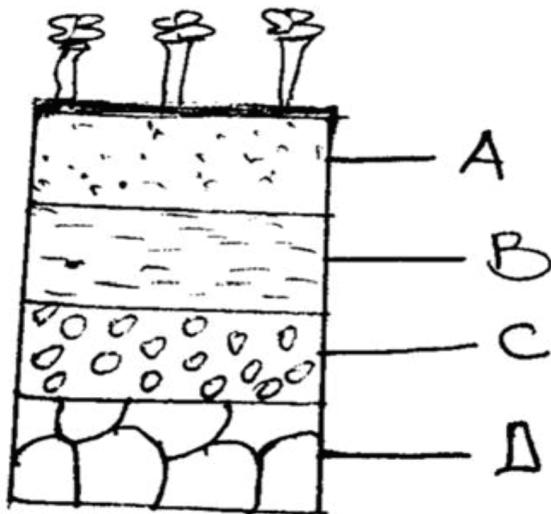
NAME.....STREAM.....

INSTRUCTIONS TO LEARNERS:

- This paper has **part A** and **part B**
- Respond to **all** Items
- All responses **MUST** be written on Answer sheets will be provided.

PART A

1. Kitandwe is a farmer in Kanungu district. He recently planted his maize seed at the beginning of the rainy season. It is now a month but his seeds have not germinated and he is in complete confusion.
 - (a) State four reasons that might have led to the failure of the seeds to germinate. (04 scores)
 - (b) Suggest four qualities Kitandwe should put into consideration while choosing seeds for planting the next season. (04 scores)
 - (c) How can farmers ensure high yields in maize production? (02scores)
2. Using the knowledge, you have acquired from studying soil, (a) What do you understand by the term soil hard pan? (01 score)
(b) outline causes of soil hard pan incrop production. (04scores)
(c) Below is a diagram illustrating a soil profile, study it carefully and answer the question that follow.



- i) What do you understand by the term soil profile (01score)
- ii)
- iii) Name the parts labelled A,B,C and D and explain each to crop production (04 scores)

3. suppose there is anew project for supporting farmers to increase the maize yiled . as an agriculture student how can you identify 30 farmers and convince them to grow that new variety.

(a) How could you identify and register 30 farmers in two weeks

(b) what training and support do you think could be given to those farmers to help them maximum their maize yield?

(b) Give the qualities of good farm records (04 scores)

4. Plant nutrients are categorized into macro and micro nutrients. Nitrogen is one of the macro-nutrients required by plants for their growth and development.

a) Briefly differentiate between macro and micro nutrients (02 scores)

b) Suggest four signs that would inform farmers about the deficiency of Nitrogen in their soil. (04 scores)

c) Suggest four ways through which farmers can improve on the Nitrogen content of their soil. (04 scores)

d) Outline the effects of excessive Nitrogen in the soil (04 scores)

5. As student of project write report about the project your doing currently.(40 marks)

6. Majority of Ugandans practice Agriculture on small scale farms, but their yields are ever low. As a student of Agriculture what could be the cause of the low yields?
(05 scores)
7. The pictures in the figure below are annual plants commonly grown in Uganda.



X



Y

(a) . As a young farmer, why do you include plant X in your planting seasons?
(01score)

(b) Show the differences in their structures (04scores)

Plant X	Plant Y

Part B

In Akutex's village, many farmers lack knowledge about propagation and its importance in crop production. You have been invited for a talk show on one of the television stations, prepare a speech on;



- a) Advantages of producing crops using vegetative propagation (10 scores)
- b) Describe to the farmers the causes of seed dormancy and how it can be overcome (10 scores)

END