

**P515/2**

**Principles and Practices of  
Agriculture**

**Paper 2**

**August 2024**

**3 Hours**



**ASSOCIATION OF SECONDARY SCHOOLS HEADTEACHERS OF UGANDA**

**(ASSHU)- NTUNGAMO**

**NTUNGAMO DISTRICT JOINT MOCK EXAMINATIONS 2024**

*Uganda Advanced Certificate of Education*

**PRINCIPLES AND PRACTICES OF AGRICULTURE**

**(THEORY)**

**PAPER 2**

**3 HOURS**

**INSTRUCTIONS TO CANDIDATES :**

- This paper consist of Sections **A,B,C,D** and **E**
- Answer question **1** in Section **A** and **four** other questions, selecting **one** from each of Sections **B,C,D** and **E**
- Any additional question(s) attempted will not be marked.

## SECTION A (20MARKS)

Question 1 is Compulsory

1. An experiment was carried out on maize seeds to find out changes in starch and sugar contents of the seeds during germination in darkness. The results of the experiment are shown in Table 1. Study the table and answer the questions that follow

**Table 1**

Days from start of experiment	Sugar content (g)	Starch content (g)
2	5	35
4	10	30
6	20	20
8	35	15
10	34	5
12	31	2.5

- (a) On the same axis, plot a graph of changes in starch content against days from start of the experiment (06marks)
- (b) Describe the shape of each curve on your graph (04marks)
- (c) Explain the relationship between the two curves (04marks)
- (d) What is the role of water in germination? (06marks)

## **SECTION B (20MARKS)**

### **CROP PRODUCTION**

*Answer **one** question from this Section*

2. (a) Explain ways through which the soil becomes acidic (04marks)  
(b) State the benefits of lime in the soil (07marks)  
(c) Explain the factors considered before applying lime to the soil (09marks)
3. (a) State the advantages of controlling weeds by cultivation (10marks)  
(b) Explain the environmental factors that cause diseases in plants (10marks)

## **SECTION C (20MARKS)**

### **ANIMAL PRODUCTION**

*Answer **one** question from this Section*

4. (a) Explain why housing is important in poultry production (06marks)  
(b) Describe the requirements of a good deep litter house (09marks)  
(c) State the importance of litter in a poultry house (05marks)
5. (a) Explain the factors that predispose farm animals to disease infections (07marks)  
(b) In what ways are pathogens transmitted to farm animals (07marks)  
(c) Suggest the ways of caring for sick animals (06marks)



## SECTION D (20MARKS)

### AGRICULTURAL ENGINEERING

*Answer **one** question from this Section*

6. (a) State the qualities of a good Yoke for draught animals (08marks)  
(b) Explain how a farmer can improve efficiency of draught animals (12marks)
7. (a) Explain the factors considered when selecting a source of power to use in agricultural production (12marks)  
(b) State the factors that limit efficiency of manual power in agricultural production (08marks)

## SECTION E (20MARKS)

### AGRICULTURAL ECONOMICS

*Answer **one** question from this Section*

8. (a) Distinguish between economic efficiency and technical Efficiency (03marks)  
(b) Why is it necessary to assess the efficiency of a farm from time to time? (05marks)  
(c) Suggest the ways of improving efficiency of a farm (12marks)
9. (a) What is Agricultural development? (02marks)  
(b) Explain the role of government in promoting agricultural development (12marks)  
(c) State the roles of extension workers in rural agricultural development (06marks)

**END**