

Candidate's Name:

Signature.....

Random No.					Personal No.		

(Do not write your School/Centre Name or Number anywhere on this booklet.)

P515/3
PRINCIPLES AND
PRACTICES OF
AGRICULTURE
(Practical)
Paper 3
Nov. / Dec. 2022
2 hours



UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Advanced Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE
(PRACTICAL)

Paper 3

2 hours

INSTRUCTIONS TO CANDIDATES:

The paper consists of five questions.

Answer all the questions.

All answers should be written in the spaces provided.

For Examiners' Use Only		
Question	Marks	Examiner's Signature No.
1		
2		
3		
4		
5		
Total		

1. Specimens S, T, U and V are planting materials. Observe the specimens and answer the questions that follow.

(a) What should be done to each of the specimens S, T and U to prepare it for planting? (06 marks)

S

(i)

(ii)

T

(i)

(ii)

U

(i)

(ii)

(b) Identify the **four** parts of specimen V that can be used for propagation. (02 marks)

- (c) Give **two** advantages of the method you would use to propagate specimens S, U and V. (02 marks)

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2. You are provided with specimen Q which is a reproductive system of a male farm animal. Observe it and answer questions that follow.

- (a) (i) Describe the shape of the part of the specimen labelled A₇. (01 mark)

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- (ii) What is the significance of the shape you have described in (a) (i)? (01 mark)

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- (b) Why is the part labelled A₁ and its contents located outside the body of the animal? (01 mark)

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- (c) Give one contribution of each of the parts of the specimen labelled A₃, A₅ and A₆ during the reproductive process. (03 marks)

A₃

A₅

A₆

(d) State two functions of each of the parts of the specimen labelled A_2 and A_4 . (04 marks)

A_2

(i)

(ii)

A_4

(i)

(ii)

3. You are provided with specimens C_1 , C_2 and C_3 which are livestock management tools and equipment. Observe them and answer questions that follow.

(a) Describe how each specimen is designed to perform its function. (03 marks)

C_1

C_2

C_3

(b) Outline the procedure for using specimen C_1 on a calf. (03 marks)

(c) State **two** problems that are associated with using specimen **C₁**. (01 mark)

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(d) State **one** maintenance practice that should be carried out on each of the specimens **C₁**, **C₂** and **C₃**. (03 marks)

C₁

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C₂

.....

C₃

4. You are provided with specimens **M₁**, **M₂**, **M₃**, **M₄**, **M₅** and **M₆** which are livestock feeds. Observe them and answer questions that follow.

(a) What is the main nutrient supplied by each of the specimens **M₁**, **M₃**, **M₄** and **M₅**? (04 marks)

M₁

M₃

M₄

M₅

(b) Which group of livestock can effectively utilize specimen **M₆**?
Give a reason for your answer. (02 marks)

Group of livestock

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Reason

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- (c) Describe the procedure of making silage using specimens M_2 , M_3 and M_5 . (04 marks)

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5. You are provided with specimens B_1 and B_2 which are common crop pests. Using a hand lens, observe them and answer questions that follow.

- (a) Classify the specimens according to the type of their mouth parts. (02 marks)

B_1

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B_2

.....

- (b) Basing on the type of mouth parts, suggest the types of damage that each specimen can cause to the host plant. (04 marks)

B_1

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B_2

.....

(c) (i) Which type of pesticide is effective in controlling each specimen? (02 marks)

B₁

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B₂

.....

(ii) Give two cultural methods of controlling each specimen. (02 marks)

B₁

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B₂

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