

Name:

Centre/Index No:

School.....

Signature.....

**P515/3
PRINCIPLES
AND PRACTICES
OF AGRICULTURE
PAPER 3
July/August 2018
2 hours**



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 3

2 hours

INSTRUCTIONS TO CANDIDATES:

- Answer **all** questions, writing your answers in the spaces provided.

FOR EXAMINER'S USE ONLY		
QUESTION	MARKS	EXAMINER'S No.
1		
2		
3		
4		
5		
TOTAL		

1. You are provided with soil samples **A** and **B**.

Carry out the following procedures and answer the questions that follow.

Obtain two boiling tubes and label them **A** and **B**. add about 4cm³ of each soil sample in the labelled boiling tubes.

Add 10cm³ of sodium hydroxide solution to each sample. Then stir vigorously and leave to settle for 20 minutes.

Note: You may proceed with other questions as you allow the set up to settle.

(a) Write your observations. (2 marks)

A

.....

.....

B

.....

.....

(b) Explain your results in (a) above (2 marks)

.....

.....

.....

.....

.....

.....

(c) Which of the **two** samples would you recommend to raise crops.
(Give a reason) (3 marks)

.....

.....

.....

.....

(d) Suggest the factors that could have led to the condition in sample **B**. (3 marks)

.....

.....

.....

.....

2. You are provided with specimens **E, F, G, H, I, J, K** which are used in bee keeping.

a) Suggest a particular activity where all the specimens are used. (1/2 marks)

.....

.....

b) Suggest the function of each specimen in the named activity in (a) above. (3½ marks)

E

.....

F

.....

G

.....

H

.....

I

.....

J

.....

K

.....

c) Describe how all the specimens can be used together to perform the activity mentioned above. (3 marks)

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

d) Explain the adaptations of the following specimens to their functions.

K

.....

.....

.....

(2 marks)

Turn Over

I

.....

.....

.....

(1 mark)

3. Specimens **Q₁** and **Q₂** are farm products. **Q₃** is a common tool used on a dairy farm.

a) Describe the features on **Q₃** that enable it carry out its functions.

.....

.....

.....

.....

.....

.....

(3 marks)

b) Pour 70ml of **Q₁** in a clean measuring cylinder. Then carefully insert **Q₃** in the set up. Record your observation.

.....

.....

.....

(1 mark)

c) Then mix 50cm³ of **Q₁** with 10 spatulafuls of **Q₂** using another measuring cylinder. Carefully insert **Q₃** in the set up.

Record your observation.

(1 mark)

.....

.....

.....

d) Explain your observation in (c) above.

(2 marks)

.....

.....

.....

e) State **three** other factors that may lead to the deterioration of the quality of **Q₁** on the farm.

(3 marks)

.....

.....

.....

.....

.....

4. **T₁, T₂, T₃ and T₄** are simple machine devices used on a farm.

a) Describe how the following are used on the farm

T₁ (2 marks)

.....
.....
.....

T₂ (3 marks)

.....
.....
.....

b) i) State with reason, the class of lever to which **T₃** falls. (2 marks)

.....
.....
.....
.....

ii) Under which category of simple machines does **T₁** fall? (1 mark)

.....
.....

c) State the factors that lead to better efficiency of **T₄** (2 marks)

.....
.....
.....
.....
.....

5. Specimens; **L, M, N, O, P, Q, R** and **S** are used in crop production. Study them carefully and answer the following questions.

a) Name the crop where all those specimens are used. (1 mark)

.....
.....

b) Suggest the function of each specimen in the production of the crop you have mentioned in (a) above. (4 marks)

L

.....

M

.....

N

.....

O

.....

P

.....

Q

.....

R

.....

S

.....

- c) Describe the procedure of using all the specimens in the cultivation of the crop mentioned in (a) above. (5 marks)

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

END