

NAME:.....INDEX NO.....SIGNATURE :.....

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**PRINCIPLES & PRACTICES  
OF AGRICULTURE**

Paper 2

**2022**

2hours



**MATIGO MOCK EXAMINATIONS  
Uganda Certificate of Education**

**PRINCIPLES & PRACTICES  
OF AGRICULTURE  
Paper 2**

2hours

**INSTRUCTIONS TO CANDIDATES:**

*This paper consists of **five** questions*

*Answer **all** questions*

*The answers are to be written in the spaces provided*

**FOR EXAMINER'S USE ONLY**

| Question | Mark | Examiners sign |
|----------|------|----------------|
| 1        |      |                |
| 2        |      |                |
| 3        |      |                |
| 4        |      |                |
| 5        |      |                |
| Total    |      |                |

1. You are provided with specimen **S** and **T** which are soil samples. Carryout tests on the specimen following the procedures provided

Measure 50cm<sup>3</sup> of specimen **S** and put it in a funnel which is lined with a filter paper.

Add 30cm of water when putting the funnel on a measuring cylinder

Repeat the procedures with specimen **T**, and record and fill the table below

| Soil sample | Volume of H <sub>2</sub> O used | Volume of soil used | Volume of filtrate | Volume of H <sub>2</sub> O retained |
|-------------|---------------------------------|---------------------|--------------------|-------------------------------------|
| S           |                                 |                     |                    |                                     |
| T           |                                 |                     |                    |                                     |

(4 marks)

- b) Which of the samples had the highest volume of filtrate?

(1/2mark)

.....

Explain your results

(1 mark)

.....

.....

.....

- c) i) Which sample has the lowest filtrate?

(1/2mark)

.....

Explain your results

(1 mark)

.....

.....

.....

- ii) State two ways of improving retainability of the soil with the highest filtration

(2 marks)

.....

.....

.....

.....

- d) Describe the appearance of the two samples of soil.

(1 mark)

S.....

.....

T.....

.....

2. You are provided with the following species **A<sub>1</sub>** **A<sub>2</sub>** **A<sub>3</sub>** **A<sub>4</sub>** and **A<sub>5</sub>**

a) i) Categorize the specimens above according to their importance (2 marks)

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

ii) Which specimen can best form a mixed stand as used in pasture (1 mark)

.....

b) Why should the specimens selected in A (ii) above grown together? (2 marks)

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

ii) Observe specimen **A<sub>4</sub>** and show the features that make it belong to the category in a(i) above. (2 marks)

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

iii) Show how **A<sub>1</sub>** and **A<sub>4</sub>** can best be preserved for future use on the farm without wastage (1 mark)

**A<sub>1</sub>**.....

.....

**A<sub>4</sub>**.....

.....

c) State how you can make pasture more productive on the farm? (2 marks)

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

3a) You are provided with specimen L N M and O which are used in livestock management practices. (4 marks)

Describe how each specimen is used to achieve its function.

L.....  
.....  
.....  
.....

M.....  
.....  
.....  
.....

N.....  
.....  
.....  
.....

O.....  
.....  
.....  
.....

b) How are specimens L and M suited for their functions?

L..... (1 mark)  
.....  
.....  
.....

M.....(1 mark)  
.....  
.....  
.....

c) Show how each of the specimen can be maintained for long use on the farm?  
(4 marks)

L.....  
.....

M.....  
.....

N.....  
.....

O.....  
.....

4. You are provided with specimen C<sub>1</sub> C<sub>2</sub> and C<sub>3</sub> which are plants affected.

a) State the observable damages on each of the specimen. (3 marks)

C<sub>1</sub>  
.....  
.....  
.....

C<sub>2</sub>  
.....  
.....  
.....

C<sub>3</sub>  
.....  
.....  
.....

b) What effects do your observations in (a) above have on each specimen?  
(3 marks)

C<sub>1</sub>  
.....

C<sub>2</sub>  
.....

C<sub>3</sub>  
.....

c) What are the likely causes of your observations on the specimens in (a) above?  
(1½ marks)

C<sub>1</sub>  
.....  
C<sub>2</sub>  
.....  
C<sub>3</sub>  
.....

d) Suggest one cultural practice for each case that can be used to reduce the  
damages observed in (a) above for (1½ marks)

C<sub>1</sub>.....  
.....  
.....  
C<sub>2</sub>.....  
.....  
.....  
C<sub>3</sub>.....  
.....  
.....

e) What transmits the cause identified in specimen C<sub>2</sub>? (1 mark)

.....  
.....

5. You are provided with specimens **R, T, U** and **V**. which are carpentry workshop tools.

a) Describe how each specimen is suited for its functions. (4 marks)

R.....  
.....  
.....

T.....  
.....  
.....

U.....

.....  
.....

V.....  
.....  
.....

b) (i) State the use of each specimen. (2 marks)

R.....  
.....

T.....  
.....

U.....  
.....

V.....  
.....

(ii) How can the above specimens be maintained for long use on the farm?

(4 marks)

R.....  
.....  
.....

T.....  
.....  
.....

U.....  
.....  
.....

V.....  
.....  
.....

**END**