NAME......................................................................................................................

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P515/3

**PRINCIPLES AND PRACTICES**

**OF AGRICULTURE**

**PAPER 3**

JULY/AUGUST 2016

2 HOURS

NTUNGAMO PRIVATE SECONDARY SCHOOLS

JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

**PRINCIPLES AND PRACTICES**

**OF AGRICULTURE**

**PAPER 3**

2HOURS

**INSTRUCTIONS TO CANDIDATES:**

* Do all numbers

1. Specimens A, B, C and D are parts of a primary tillage implement.

(a) (i). Identify the implement to which the specimens belong **1mk**

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(ii). To which level of Agriculture mechanization does the specimen identified in a (i) belong?  **1mk**

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(b). Identify each specimen **2mks** A.............................................................................................................................

B..............................................................................................................................

C..............................................................................................................................

D.............................................................................................................................

(c). Briefly state the function of each specimen **2mks** A.............................................................................................................................

B.............................................................................................................................

C.............................................................................................................................

D.............................................................................................................................

(d). Briefly explain how any one major feature observed assist each of the

specimen to carry out the stated function in 1 (c) above **4mks**

A.............................................................................................................................

B.............................................................................................................................

C.............................................................................................................................

D.............................................................................................................................

2. Put a tea spoonful of specimen **E** in a test tube and label it **E** and another tea

spoonful of specimen **F** in another test tube and label it **F**. Fill each test tube half

way with water and shake each test tube to mix then leave to settle for at least

**5min**. Add a spatula full of substance **H** followed by about **3** drops of universal

Indicator solution

(a). Write your observations in each test tube **4mks**

E.................................................................................................................................

F.................................................................................................................................

(b). Using a PH colour chart, state the PH value of each soil sample **2mks** E.................................................................................................................................

F.................................................................................................................................

(C). Basing on the tests in questions 2,

(i) Suggest the PH, of each soil sample. **2mks**

E.................................................................................................................................

F.................................................................................................................................

(ii) Suggest the effect of substance **H** when added to the soil **1mk**

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(iii) Suggest one method of improving the PH of soil sample **E** **1mk**

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3. You are provided with specimens **L** and **M** which are plant parts attacked by pest/

disease.

(a). Observe the specimens and state the damages observed on each specimen

**2mks** L..................................................................................................................................

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

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(b) Suggest the cause of each damage observed on each specimen **2mks**

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

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

(c). Suggest the effect of each observed damage on the crop. **2mks**

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

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

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(d). Suggest two cultural methods of controlling each observed damage on the

specimen. **4mks**

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

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

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4. Specimens **P**, **Q**, **R**, and **S** are used in Honey harvesting.

(a) Identify each specimen **2mks** P.................................................................................................................................

Q.................................................................................................................................

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

S.................................................................................................................................

(b). Describe how the specimens **P**, **Q**, **R** and **S** are used together to obtain honey from a Bee hive **4mks**

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(c). Briefly explain how specimen **S** enables a farmer to extract honey from the hive

**2mks**

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(d). Suggest any four factors that may affect the quality of honey harvested from a

hive**. 2mks**

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5. Specimens **T**, **U** and **V** are used to carry out livestock management practices

(a). Observe the specimens and state the function of each specimen **3mks**

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

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

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

(b). Explain how any one major observed feature assist each specimen to carry out its function stated above **3mks**

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

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

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

(c). Suggest two possible areas on the animal body where each of the specimens

**T** and **V** is applied **2mks**

T

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V

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(d). State two ways how to care for and maintain each of the specimens **T** and **V** in good working condition.  **2mks**

T

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V

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