**527/2**

**PRINCIPLES AND**

**PRACTICES OF**

**AGRICULTURE**

**(PRACTICALS)**

**PAPER 2**

**August 2019**

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**Community**

UNNASE MOCK EXAMINATIONS

**2 HOURS**

***Uganda Certificate of Education***

**PRINCIPLES AND PRACTICES OF AGRICULTURE**

**(PRACTICALS)**

**PAPER 2**

**2 HOURS**

**INSTRUCTIONS**

* *Answer all questions*
* *All answers should be written in the spaces provided.*

|  |  |  |
| --- | --- | --- |
|  | **FOR EXAMINER’S USE ONLY** | |
| **Qn** | **MARKS** | **EXAMINER’S INITIAL** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |

1. You are provided with specimen A which is a soil sample measure 40cm3 of A in a measuring cylinder pour 60cm3 of water into the cylinder, observe and record your observation. *(½ mark)*

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1. What conclusion can you draw from the observation made in a (i)

*(½mark)*

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1. Stir or shake the contents in cylinder vigorously and allow to settle for 15 minutes.
2. Draw and label the cylinder to show the different soil fractions as they appear in the measuring cylinder after 15 minutes. *(3marks)*

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1. Moisten a small quantity of the specimen and rub between the thumb and the index finger .

Record your observation *(½mark)*

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1. State the textural class of specimen A (½mark)

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1. Outline the challenges faced by farmers who use this type of soil. *(3marks)*

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1. Suggest two ways by which the challenges mentioned in (c)(ii) above can be solved. *(2marks)*

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2. Specimens B and C are parts of a farm animal use them to answer the questions below.

(a) From which farm animal were the specimen extracted. *(1mark)*

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(b) Using a knife, cut each of them open longitudinally. Observe critically and compare the contents of the specimens. *(3marks)*

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(c) Remove the contents from each specimen then observe and compare the internal structure of the specimen. *(2marks)*

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

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

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(d) Describe the suitability of each specimen for their function. *(4marks)*

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

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

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3. Specimen D1-D6 are garden tools.

(a) Describe how the specimens are used in transplanting of seedlings from a nursery bed. *(3marks)*

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(b) Explain how the design of specimen D2,D2, D4 and D3 suit their functions. *(4marks)*

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(c) How can you improve efficiency when using specimen D1,D2,and D6. *(1½ marks)*

D1.....................................................................................................................................................................................................................................

D2.....................................................................................................................................................................................................................................

D6....................................................................................................................................................................................................................................

(d) Describe how specimen D4 is used in the garden. *(1½ marks)*

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4. Specimen E, F and G are used in maintenance of farm tractors

(a) State the common function of the specimens E, and F farm machines. *(1mark)*

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(b) In which part of the farm tractors is specimen E and F used.

Specimen E *(2marks)*

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Specimen F

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1. Describe the features possessed by specimens E and F that facilitate their function. *(3marks)*

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

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

(d) (i) State the function of specimen G in the farm tractor. *(1mark)*

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(ii) Describe how specimen G is used to carry out its function. *(3marks)*

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5. You are provided with specimens P1-P4 and which are planting materials.

(a) Giving a reason in each case comment on the suitability of each specimen for planting. *(4 marks)*

P1.....................................................................................................................................................................................................................................

P2....................................................................................................................................................................................................................................

P3......................................................................................................................................................................................................................................

P4......................................................................................................................................................................................................................................

(b) Examine specimen Q and describe the damage. *(2marks)*

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(c) State the pest responsible for the damage. *(1½marks)*

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1. How can the pest be controlled. *(½mark)*

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(d) Describe how specimen can be prepared for planting. *(3marks)*

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**\*\*\*\* END \*\*\*\***