**NAME OF SCHOOL: ................................................................................**

**NAME OF CANDIDATE: ..........................................................................**

**INDEX NO: ..................................... SIGNATURE: ................................**

**527/2**

PRINCIPLES AND

PRACTICES OF

AGRICULTURE

**PAPER 2**

**JULY/AUGUST**

**2 HOURS**



**ELITE EXAMINATION BUREAU MOCK 2019**

**Uganda Certificate of Education**

**PRINCIPLES AND PRACTICES OF AGRICULTURE**

PAPER 2

**(Practical)**

2 HOURS

**INSTRUCTIONS TO CANDIDATES:**

* *This paper consists of five questions.*
* *Attempt all questions in the paper in the spaces provided.*

|  |  |  |
| --- | --- | --- |
| **For examiners use only** | | |
| Questions | Scores | Examiner’s signature |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| Total |  |  |

1. You are provided with two soil samples F and G.

a) Observe the specimens and state three differences between F and G.

(3 marks)

|  |  |
| --- | --- |
| **Specimen F.** | **Specimen G.** |
|  |  |
|  |  |
|  |  |

b) Measure 20cm**3** of soil sample F and pour into the measuring cylinder and add 30cm**3** of water and stir then allow the mixture to settle, for 5 minutes.

i) Observe and make the labelled drawing of content in the cylinder.

(2 marks)

ii) Calculate the percentage of air in F. (2 marks)

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c) With the reason, state which of the two samples is more suitable for crop production. (1 mark)

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**…………………………………………………………………………………………..**

d) Identify the layer of soil profile from which each soil sample was obtained. (2 marks)

F. **…………………………………………………………………………………...**

G. **…………………………………………………………………………………...**

2. You are provided with specimen J, K, L, M, N, P and Q are used in poultry.

a) Identify the stage of poultry production at which the specimens are used in a combination. (1 mark)

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**…………………………………………………………………………………………..**

b) State the roles of each of materials in the stage identified in (a) above.

J. (½ mark)

**…………………………………………………………………………………………..**

**…………………………………………………………………………………………..**

K. (½ mark)

**…………………………………………………………………………………………..**

**…………………………………………………………………………………………..**

L. (½ mark)

**…………………………………………………………………………………………..**

**…………………………………………………………………………………………..**

M. (½ mark)

**…………………………………………………………………………………………..**

**…………………………………………………………………………………………..**

N. (½ mark)

**…………………………………………………………………………………………..**

**…………………………………………………………………………………………..**

Q. (½ mark)

**…………………………………………………………………………………………..**

**…………………………………………………………………………………………..**

c) Describe how the materials are used in a combination to perform their roles. (4 marks)

**…………………………………………………………………………………………..**

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d) Suggest the management practices conducted to ensure safe use of N.

(2 marks)

**…………………………………………………………………………………………..**

**…………………………………………………………………………………………..**

**…………………………………………………………………………………………..**

3. You are provided with specimen R**1**, R**2**, R**3**, R**4**, R**5** and R**6** which are tools used in farm work shop.

a) Describe how you would use each of the specimens in combination to construct a nesting box. (3 marks)

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b) Give the functions of each specimen. (5 marks)

R**1** **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

R**2** **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

R**3** **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

R**4** **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

R**5** **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

R**6** **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

c) Explain how specimen R**2** adopt to its function. (2 marks)

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**…………………………………………………………………………………………..**

4. You are provided with specimen S, T and U which are plants affected by pests.

a) Describe the observable damage on the plant parts. (3 marks)

S **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

T **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

U **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

b) Suggest the pests that have caused the damage above. (3 marks)

S **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

T **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

U **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

c) State the methods of controlling pests that attack specimen. (3 marks)

S **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

T **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

U **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

5. You are provided with specimen V, W and X. Study them and answer the questions that follow.

a) Where is specimen V and W used in an engine? (2 marks)

V **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

W **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

b) Give the observable characteristics that make specimens V and W suitable for their functions. (2 marks)

V **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

W **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

c) State the uses of specimen X. (2 marks)

**…………………………………………………………………………………………..**

**…………………………………………………………………………………………..**

d) Draw a well labelled diagram of specimen X. (2 marks)

e) State the functions of specimen V and M in farm mechanisation.

(3 marks)

V **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

W **…………………………………………………………………………………...**

**…………………………………………………………………………………………..**

**END**