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**527/2**

**PRINCIPLES**

**AND PRACTICES**

**OF AGRICULTURE**

**(Theory)**

Paper 2

Jul/Aug 2019

2 Hours

**MUKONO EXAMINATION COUNCIL**

**Uganda Certificate of Education**

**PRINCIPLES AND PRACTICES OF AGRICULTURE**

**(Theory)**

Paper 2

2 Hours

**INSTRUCTIONS TO CANDIDATES**

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

*Answer* ***all*** *questions*

*Write the answers in the spaces provided.*

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| --- | --- | --- |
| **FOR EXAMINER’S USE ONLY** | | |
| **Question** | **Marks** | **Examiner’s No.** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| **Total** |  |  |

1. You are provided with specimen Y which is a dry soil sample.

a) Measure about 30cm3 of the sample and put in a measuring cylinder of 100cm3. Add 50cm3

Of water and shake. Allow the contents to settle for about 10 minutes.

Draw and label the contents. ***(03 marks)***

b) Which soil property is being investigated? ***(01 mark)***

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c) Give the importance of the property named in b (above) on crop production. ***(04 marks)***

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d) Outline two other soil factors that may affect crop production. ***(02 marks)***

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1. Specimen P belongs to a tractor system.

a) Name the tractor system to which the specimen belongs. ***(01 mark)***

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b) What is the function of the specimen in a tractor? ***(01 mark)***

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c) Give four features of specimen P which enables it perform its function. ***(04 marks)***

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d) Give four effects that will occur to the tractor if specimen P is not functioning properly.

***(02 marks)***

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e) State two ways of maintaining specimen P in a good working condition. ***(02 marks)***

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1. Specimens H1 and H2 are crops attacked by diseases.

a) State the organisms responsible for the spread of the diseases. ***(02 marks)***

H1..................................................................................................................................................................................

H2 .................................................................................................................................................................................

b) Observe the specimens and state two signs in each case. ***(02 marks)***

H1

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H2

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c) Give three cultural methods of controlling the diseases in the affected crops. ***(06 marks)***

H1

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H2

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1. You are provided with specimens K and L which are animal parasites.

a) Classify the specimens. ***(01 mark)***

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b) State two effects of each specimen on its host. ***(02 marks)***

K

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L

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c) Give two features which enable each specimen to survive as a parasite. ***(04 marks)***

K

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L

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d) Suggest three ways a farmer can control the effects of K in animal production ***(03 marks)***

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1. You are provided with specimen Q1, Q2, Q3, Q4 and Q5 which are workshop tools.

a) Describe how you would use each of the specimens to construct a brick mould.

***(2 ½ marks)***

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b) Observe the specimens carefully and state one feature in each which enables the specimen

Perform their function. ***(2 ½ marks)***

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c) List three factors which affect the quality of the mould. ***(03 marks)***

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d) Give two ways of maintaining the tools in good working conditions. ***(02 marks)***

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***End -***