

Name:..... Index No.:.....

Signature:.....

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.*

FOR EXAMINER'S USE ONLY		
Question	Marks	Examiner's No.
1		
2		
3		
4		
5		
<b>Total</b>		

1. You are provided with specimen Y which is a dry soil sample.
- a) Measure about 30cm<sup>3</sup> of the sample and put in a measuring cylinder of 100cm<sup>3</sup>. Add 50cm<sup>3</sup> 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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2. 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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3. Specimens H<sub>1</sub> and H<sub>2</sub> are crops attacked by diseases.

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

H<sub>1</sub>.....

H<sub>2</sub> .....

b) Observe the specimens and state two signs in each case.

**(02 marks)**

H<sub>1</sub>

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H<sub>2</sub>

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c) Give three cultural methods of controlling the diseases in the affected crops.

**(06 marks)**

H<sub>1</sub>

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H<sub>2</sub>

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4. 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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5. You are provided with specimen Q<sub>1</sub>, Q<sub>2</sub>, Q<sub>3</sub>, Q<sub>4</sub> and Q<sub>5</sub> 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 -**