

**527/2  
AGRICULTURE PRINCIPLES &  
PRACTICES  
Paper 2  
Nov 2023  
 hours**

**KINGS WAY HIGH SCHOOL-KITENDE**

**END OF YEAR ASSESSMENT 2023**

**Lower Secondary Certificate of Education**

**PRINCIPLES & PRACTICES OF AGRICULTURE**

**(Senior three)**

**Paper 2**

**1 hr: 30 min**

**INSTRUCTIONS TO CANDIDATES:**

* This paper consists of four questions.
* Answer all the questions.
* The answers are to be written in the spaces provided.

|  |  |  |
| --- | --- | --- |
| FOR EXAMINER’S USE ONLY | | |
| QUESTIONS | MARKS | COMMENTS |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |

1. You are provided with specimen A and B which are soil samples.
2. Measure 30 of specimen A and put it into a filter paper fitted into a filter funnel. Place the filter funnel containing the soil sample on to a measuring cylinder. Measure 50 of clean water and pour it on the funnel

(i) Read and record the time taken for the first drop of water to fall into the measuring cylinder……………………………………………………….. (1 mark)

1. Repeat the procedure in (a) using soil sample B. read and record the time taken for the first drop of water to appear in the measuring cylinder. Record your results in the table below. (2 marks)

|  |  |  |
| --- | --- | --- |
| Soil sample | Time taken for the first drop | Volume of water collected after 5 minutes |
| A |  |  |
| B |  |  |

1. Identify the property being investigated above. (1 mark)

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1. Give one method of improving on the properties of the soil sample with the highest volume of water collected. (1 mark)

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1. Give 2 importance of organic matter in the soil. (2 marks)

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1. Calculate the amount of water that was retained in each soil sample.
2. Sample A (2 marks)
3. Sample B (2 marks)
4. You are provided with specimens X1, X2, X3, and X4 which are weeds.
5. Identify the specimens below. (2 marks)

X1………………………………………………………………………………………….

X2…………………………………………………………………………………………

X3…………………………………………………………………………………………

X4…………………………………………………………………………………………

1. Classify the specimens as annual and perennial. (2 marks)

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1. Give three ways in which the specimens can affect crop production. (3 marks)

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1. Identify any 3 cultural methods of controlling the specimens. (3 marks)

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1. You are provided with specimens C and D which are animal products. Observe them carefully and answer the questions that follow.
2. Comment on the conditions of each specimen. (2 marks)

Specimen C ………………………………………………………………………………………………

Specimen D ………………………………………………………………………………………………

1. Outline the conditions that may lower the quality of specimen C (3 marks)

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1. Identify the methods that can be used to maintain the quality of specimen B. (3 marks)

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1. Identify any four products that can be obtained from specimen C (2 marks)

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1. Specimens E, F, G, H, and I are crop products. Use them to answer the questions that follow.
2. Identify the indicators of maturity on specimens (2 marks)

E ………………………………………………………………………………………………

F ………………………………………………………………………………………………

G ………………………………………………………………………………………………

H ………………………………………………………………………………………………

1. How is specimen E different from specimen I (02 marks)

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1. Identify any four factors that may affect the quality of the specimens above. (4 marks)

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1. How can a farmer minimize the losses in production of the specimens above? (2 marks)

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**END**