

Name.....Adm.No.....

Stream..... Date: .....

**443/1**  
**AGRICULTURE**  
**Paper 1**  
**July/August- 2023**  
**2 Hours**

**BARDING BOYS' HIGH SCHOOL**

**443/1**

**Agriculture Paper 1**

**Form Two**

**2 hours**

**Instructions to candidates**

- (1).This paper consists of three sections, **A,B** and **C**.
- (2).Answer all questions in sections A and B and any other **two** questions in section **C**.
- (3).All the answers should be written in the spaces provided after every question.

**For Examiner's Use Only**

Section	Question	Maximum Score	Candidates Score
<b>A</b>	<b>1 -10</b>	<b>30</b>	
<b>B</b>	<b>11-14</b>	<b>20</b>	
<b>C</b>		<b>20</b>	
		<b>20</b>	
		<b>90</b>	

**SECTION A (30 Marks)**

**Answer all the questions in this section in the spaces provided.**

1. Name **four** farming methods in Kenya. (2marks)

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2. Give **four** reasons for minimum tillage. (4marks)

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3. State **four** factors influencing the quality of green manure (4marks)

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4 .Give **three** methods of controlling pollute water. (3 marks)

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5. List **three** factors that determine the spacing for maize . (3 marks)

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6. Give **three** pieces of information contained in field operations records. (3marks)

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7. Differentiate between inter cropping and mixed cropping. (1 mark )

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8. Name the plant part used for vegetative propagation of each of the following plants:

(a) Napier grass . (1mark)

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(b) Sugarcane. (1mark)

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(c) pyrethrum. (1mark)

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(d) Tea. (1mark)

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9. State **three** methods of maintaining soil fertility. (3 marks)

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10. Give **three** characteristics of certified seeds. (3 marks)

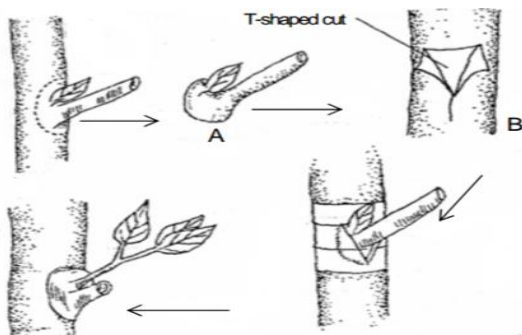
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**SECTION B (20 Marks)**

**Answer all the questions in this section in the spaces provided.**

11. Study the budding operations below and use it to answer the questions that follow.



(a). Identify the budding method illustrated above. (1 mark)

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(b). Name **two** other methods of budding. (1mark)

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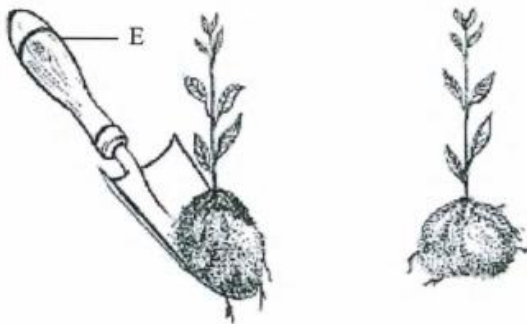
(c). State **three** advantages of budding in crop propagation. (3marks)

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12.The diagram below illustrates a nursery practice.



(a). Name the practice (1 mark)

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(b). Give a reason why the tool labelled E is important in the practice illustrated. (1 mark)

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(c)What is the appropriate stage of growth for carrying out the illustrated practice in agroforestry? (1 mark)

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(d) Explain **three** activities that ensure that the illustrated practice is carried out successfully. (3marks)

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13. The diagram below illustrates a field management practice in tomatoes. Study it carefully and answer questions that follow.





(a) Identify the practice ( 1 mark )

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b(ii) State **three** reasons for carrying out the practice. ( 3 marks)

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(ii). Name **two** other methods of training crops. ( 1 mark )

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14.The following is a list of plant nutrients: Copper, calcium, nitrogen, molybdenum, zinc, phosphorous, carbon, sulphur, iron and magnesium.

(a) Which **one** of the above plant nutrients is mainly known for

(i) Promoting root development. (1 mark)

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(ii) Preventing blossom end rot disease. (1 mark)

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(iii) Strengthening plant stalks to prevent lodging. (1 mark)

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(b) Name **two** forms in which nitrogen is absorbed from the soil by plants. (1 mark)

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**SECTION C (40 Marks)**

**Answer any two questions from this section in the spaces provided.**

15.(a) Describe the production of onions under the following sub-headings

(i). Field preparation

(2marks)

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(ii).Transplanting

(8marks)

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(b). Describe **five** characteristics of nitrogenous fertilizers ( 10 marks)

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16.(a). Explain **five** reasons for preparing land before planting

(10marks)

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(b). Explain the different ways in which each of the following environmental factors influence crop production

(i)Temperature ( 5 marks )

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(ii) Wind. (5marks)

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17.(a). Describe **five** characteristics of a good vegetable seedling. (10marks)

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b) Explain **five** benefits of irrigation in crop production (10marks)

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