

Name.....

Index No.....

School.....

Signature.....

Date.....

**443/1**  
**AGRICULTURE**  
**PAPER 1**  
**JULY/AUGUST 2010**  
**2 HOURS**

**BURETI DISTRICT JOINT EVALUATION TEST – 2010**  
*Kenya Certificate of Secondary Education (K.C.S.E)*

**443/1**  
**AGRICULTURE**  
**PAPER 1**  
**JULY/AUGUST 2010**  
**2 HOURS**

**INSTRUCTIONS TO CANDIDATES**

1. Write your name and index number in the spaces provided.
2. Sign and write the date of examination in the spaces provided above.
3. This paper consists of three sections A, B and C. Answer all questions in Section A and B
4. Answer two questions from Section C
5. Answer to **ALL** questions **MUST** be written in this booklet.

**FOR EXAMINER'S USE ONLY**

| SECTION | QUESTIONS          | MAXIMUM SCORE | CANDIDATE'S SCORE |
|---------|--------------------|---------------|-------------------|
| A       | 1 – 19             | 30            |                   |
| B       | 20 – 23            | 20            |                   |
| C       |                    | 20            |                   |
|         |                    | 20            |                   |
|         | <b>TOTAL SCORE</b> | <b>90</b>     |                   |

*This paper consists of 12 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing*

**SECTION A (30 MARKS)**

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

1. Name two ways of irrigating crops by overhead irrigation (1mk)  
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2. State four biotic factors that have negative influence on crop production (2mks)  
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3. State four properties of a loamy soil (2mks)  
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4. Name two classes of weeds based on their morphology (1mk)  
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5. List four characteristics of plants suitable for green manure preparation (2mks)  
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6. State four factors considered when selecting a site for a tomato nursery bed. (2mks)  
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.....
  
7. State two precautions which are taken when harvesting cotton (2mks)  
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8. State one reason why too much air in the silo is undesirable in the process of silage making (½mk)

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9. State four importance of secondary cultivation (2mks)

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10. State two characteristics of high altitude pastures (1mk)

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11. List three physical weathering agents in the soil formation process. (1½mks)

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12. State four advantages of alley cupping (2mks)

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13. State four aspects of rainfall that affect crop production (2mks)

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14. State two methods of testing soil Ph (1mk)

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15. State four advantages of individual owner operator land tenure system (2mks)

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16. State four roles of Agricultural Development corporation (2mks)

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17. State two advantages of bench terraces. (1mk)

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18. State three advantages of using a compound fertilizer (1½mks)

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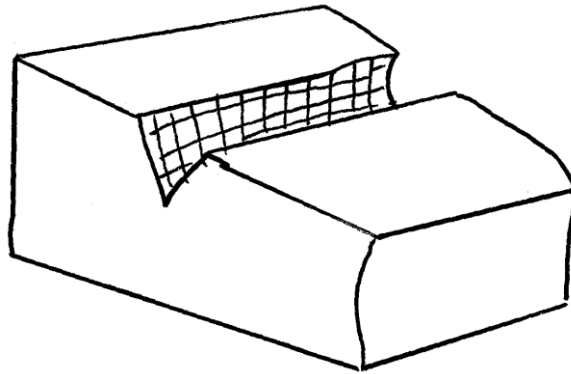
19. Give three negative impact of high temperature as crop production (1½mks)

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**SECTION B (30MARKS)**

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

20. The diagram below represents a type of gully erosion. Study it carefully and answer the questions beneath



a) Identify the type of gully illustrated above. (1mk)

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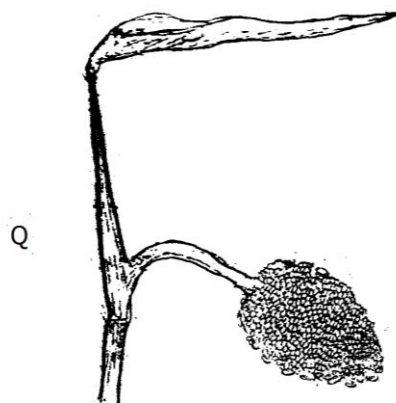
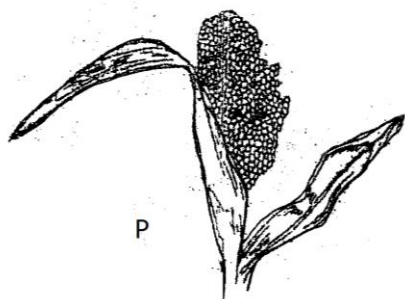
b) Briefly explain how the gully is formed (3mks)

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c) Name one control measure that has been used over many years to control gully erosion (1mk)

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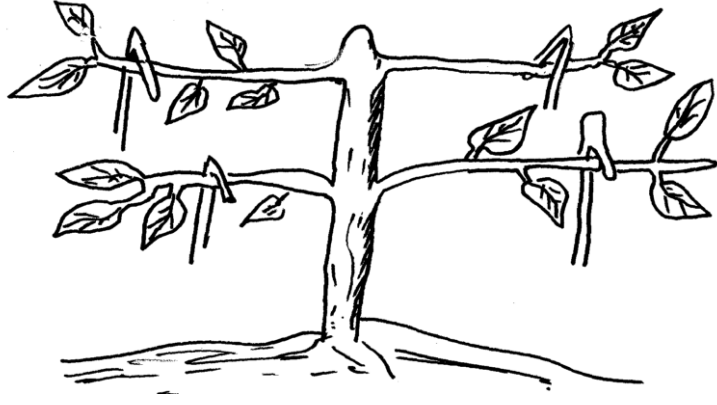
21. Study the illustrations P and Q below and answer the following questions



a) Which variety P or Q is prone to birds attack? (1mk)

- .....
- b) Give a reason for your answer in 21. (a) above (1mk)
- .....
- c) Give three reasons for drying grains before storage (3mks)
- .....
- .....
- .....

22. Study the diagram below and answer the questions beneath.



- a) State two reasons for carrying out the above practice (2mks)
- .....
- .....
- .....
- b) State two disadvantages with the above practice (2mks)
- .....
- .....
- .....
- c) Name one crop in which the practice is carried out (1mk)
- .....
- .....
- .....

23. Study the illustration below and answer the questions beneath.



- a) Identify the weeds labelled
- M ..... (½mk)
- N ..... (½mk)
- b) Give two reasons as to why it is difficult to control weed M (2mks)
- .....
- .....
- .....
- c) What is the economic importance of N. (2mks)
- .....
- .....
- .....

**SECTION C (40 MARKS)**

**Answer any TWO questions from this section in the spaces provided after question 26**

24. a) Outline the procedure of making silage (8mks)
- b) Explain characteristics of fertile soil (5mks)
- c) Explain how soil loses fertility (7mks)
25. a) Outline services offered by co-operative societies to farmers / members (12mks)
- b) State and explain management practices carried out by farmers to control pest and Diseases in a field crop (8mks)
26. a) Describe the establishment of grass pasture using seeds starting from land preparation to the time the pasture is ready for grazing. (12mks)
- b) State and explain factors considered when selecting materials for planting (8mks)











