

Name: Index No.

School: Date: Candidate's Sign

443/1

AGRICULTURE

PAPER 1

FORM 4

MARCH / APRIL 2013

TIME: 2 HOURS

BARINGO NORTH TRIAL EXAMINATIONS - 2013

The Kenya Certificate of Secondary Education (K.C.S.E)

INSTRUCTIONS TO CANDIDATES

- Write your name, School and Index Number in the spaces provided above.
- This paper consists of three Sections A,B and C.
- Answer ALL the questions in Section A and B and ANY TWO Questions from Section C.
- Answers to ALL questions must be written in the spaces provided.
- This paper consists of 26 questions.

FOR EXAMINER'S USE ONLY

Section	Question	Max. Score	Cand. Score
A	1-20	30	
B	21-23	20	
C		20	
		20	
TOTAL SCORE		90	

This paper consists of 8 printed pages.

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

SECTION A: (30MARKS)

Answer ALL the questions in this section in the spaces

1. Name **four** major branches of agriculture. (2marks)

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2. State **two** effects of low temperature on crop production. (1mark)

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3. Outline **two** factors that influence soil erosion. (1 mark)

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Name **two** propagation materials for pineapples (1mark)

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5. a) Name **two** types of capital. (1mark)

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b) Name **three** sources of capital. (1½ marks)

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6. State **two** importance of tissue culture in crop production. (1mark)

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7. Give **three** reasons for carrying out soil testing. (1½ marks)

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8. Give **two** ways through which land can be acquired. (1mark)

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9. Explain the term changing the cycle in coffee growing. (1mark)

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10. Outline **four** problems which famers encounter in marketing vegetables. (2marks)

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11. Differentiate thinning from pricking out as used in crop production. (1mark)

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12. a) State **two** factors which influence the efficiency of pesticides. (1mark)

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b) Why is finger millet rarely destroyed in the store. (1mark)

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13. List **four** records a farmer keeps in poultry enterprise. (2marks)

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14. For each of the following marketing functions state one importance. (3½ marks)

i) Packing

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iii) Storage

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15. State **two** factors that determine the number of times a farmer would harrow his land. (1mark)

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16. Under what **two** conditions would you recommend irrigation? (1mark)

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17. Why are leguminous plants preferred for green manure? (1mark)

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18. State **four** importance of water in wet paddy. (2marks)

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19. What is labour peak period? (1mark)

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20. a) Give **one** function of each of the following in the preparation of compost manure. (1½marks)

i) Top soil

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ii) Wood ash

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iii) Manure

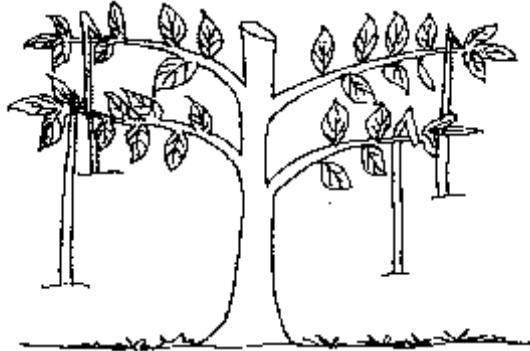
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b) What is the importance of the stick that is driven into the compost manure heap (Pit) during the preparation of compost manure? (1mark)

SECTION B: (20MARKS)

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

21. Below is an illustration of a method of frame formation in tea. Answer the questions that follow.



a) Identify the above method. (1mark)

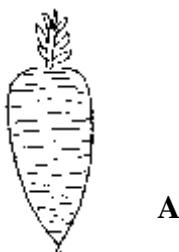
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b) Describe the procedure followed in (a) above. (4marks)

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c) A part from the above method name one other method of frame formation. (1mark)

22. The diagram below illustrates a vegetable. Study it carefully and answer the questions that follow.



a) Identify the above crop labeled A. (1mark)

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b) Name **two** varieties of the above crop (2marks)

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c) Briefly explain why manure application is not recommended for the above crop. (1mark)

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d) State **two** good qualities of crop A. (2marks)

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23. a) A form four student has a plot measuring 8.8m x 4.8m on which he has established egg plants at a spacing of 80 x 80cm and one plant per hole at the 1st row is 0.4m all round the plot.

Showing your working find:

i) Number of rows falling on wide side of the plot. (2marks)

ii) Number of plants per row. (2marks)

iii) Number of plants in the plot assuming there is 100% germination. (2marks)

b) i) What is opportunity cost? (1mark)

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ii) A farmer has an option of growing either wheat or maize in his one hectare of land.

Wheat gives a return of kshs.20, 000 while maize fetches kshs.35, 000 in the market.

If the famer chooses to grow wheat what will be the opportunity cost? (1mark)

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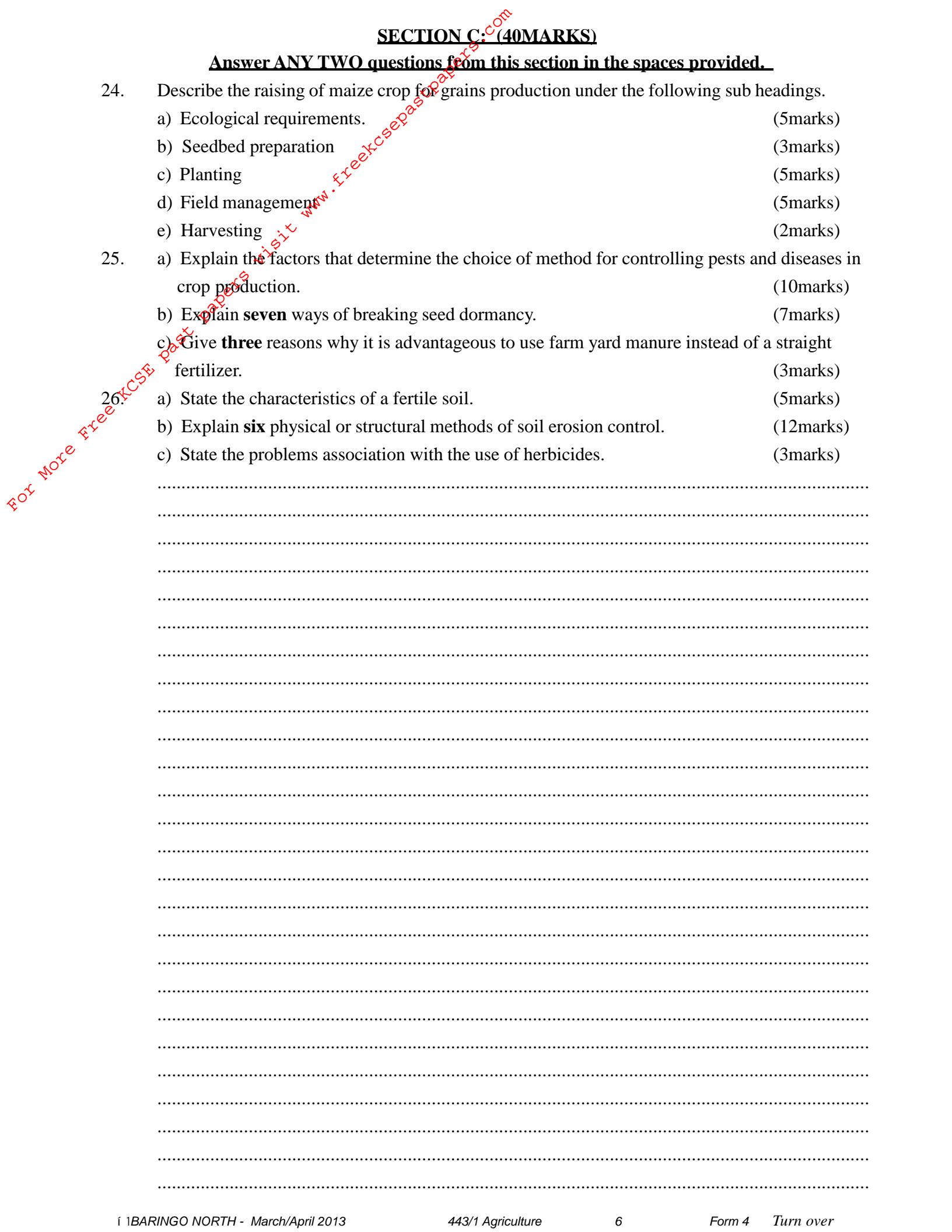
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SECTION C: (40MARKS)

Answer ANY TWO questions from this section in the spaces provided.

24. Describe the raising of maize crop for grains production under the following sub headings.
a) Ecological requirements. (5marks)
b) Seedbed preparation (3marks)
c) Planting (5marks)
d) Field management (5marks)
e) Harvesting (2marks)
25. a) Explain the factors that determine the choice of method for controlling pests and diseases in crop production. (10marks)
b) Explain **seven** ways of breaking seed dormancy. (7marks)
c) Give **three** reasons why it is advantageous to use farm yard manure instead of a straight fertilizer. (3marks)
26. a) State the characteristics of a fertile soil. (5marks)
b) Explain **six** physical or structural methods of soil erosion control. (12marks)
c) State the problems association with the use of herbicides. (3marks)
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