

Name.....

Index No.....

School.....

Candidate's sign.....

Date.....

443/1
AGRICULTURE
PAPER 1
July/August 2010
2 hrs

KWANZA DISTRICT JOINT EVALUATION EXAM – 2010
Kenya Certificate of Secondary Education (K.C.S.E)

443/1
AGRICULTURE
PAPER 1
July/August 2010
2 hrs

INSTRUCTIONS

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.
4. Answer all questions in Section A and B
5. Answer any two questions from Section C
6. Answer to ALL questions MUST be written in the spaces provided.
7. Ensure you have all pages printed and non is missing.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 22	30	
B	23 – 25	20	
C		20	
		20	
	TOTAL SCORE	90	

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

SECTION A (30 MKS)

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

1. Give **two** branches of crop production. (1mk)

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2. State **two** benefits of the optimum soil temperature in crop production. (1mk)

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3. State **four** desirable characteristics of Agro forestry trees and shrubs. (1mk)

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4. Give **two** reasons why a well drained soil is suitable for crop production. (1mk)

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5. Give **two** reasons for carrying out soil testing (1mk)

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6. Name **two** insect pests which attack maize in the field. (1mk)

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7. State **four** symptoms of calcium deficiency in crops. (2mks)

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8. List any **four** agricultural support services available to arable farming farmer. (2mks)

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9. State **two** roles of additives in silage making. (1mk)
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10. State **two** field practices that aim at maintaining the optimum plant population. (1mk)
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11. Give **two** forms of individual tenure system . (1mk)
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12. State **two** effects of weeds on livestock production. (1mk)
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13. **Name two** forms in which water exists in the soil. (1mk)
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14. State **two** conditions under which marcotting is recommended in crop production. (1mk)
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15. State **two** materials other than the plant materials required in grafting. (1mk)
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16. State **two** limitations of tissue culture. (1mk)
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17. Give **four** post – harvesting practices in crop production. (2mks)
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18. State **four** physical features used in control of soil erosion. (2mks)

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19. Name **four** components of a balance sheet. (2mks)

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20. Distinguish between trellising and propping as used in crop production. (2mks)

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21. Give **four** farming practices that are carried out in minimum tillage. (2mks)

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22. State **two** causes of hard pan in crop production. (1mk)

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SECTION B (20MARKS)

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

23. The diagrams below illustrates a micro – catchment.



a) Identify the type of micro – catchment illustrated above. (1mk)

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b) Name two types of crops that can be grown in such micro – catchments. (2mks)

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c) Name two other types of micro – catchments that are commonly used in the farms. (2mks)

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d) State two benefits of rainwater harvesting in micro – catchments. (2mks)

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24. a) Study the diagram illustrated below and answer the questions that follow:



i) Identify the structure illustrated above. (1mk)

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ii) Name the parts labeled A and B (2mks)

A.....
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B.....
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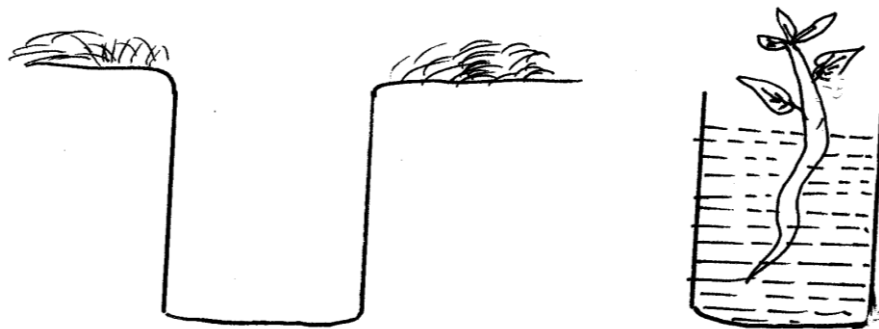
iii) State the use of the part labeled A. (1mk)

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iv) State **two** advantages of using the part labeled B in crop propagation. (2mks)

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b) The illustration shows a prepared planting hole and a sleeved coffee seedling next to it.



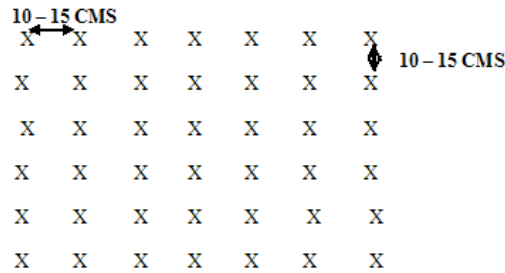
i) Describe the procedure which should be followed when transplanting coffee seedlings into the main field. (3mks)

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ii) State **one** advantage of the propagating coffee vegetatively (1mk)

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c) Below is an illustration of planting distance of a crop.



i) Name the crop likely to be spaced as shown above. (1mk)

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ii) Give any **two** reasons for the spacing in the named crop. (2mks)

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SECTION C: 40 MARKS

Answer any two questions from this section in the spaces provided after question 28

26. a) Describe the production of hybrid maize under the following sub – headings.
- i) Seedbed preparation. (3mks)
 - ii) Planting (3mks)
 - iii) Field management practices (3mks)
 - iv) Harvesting (3mks)
- b) State the precautions taken when harvesting:
- i) Pyrethrum (2mks)
 - ii) Tea (2mks)
 - iii) Coffee (2mks)
 - iv) Sugarcane (2mks)
27. a) Explain the various categories of pesticides according to their mode of action. (10mks)
- b) Explain how various practices carried out in the field help to control crop diseases(10mks)
28. a) State and explain **five** marketing functions involved in the marketing of tomatoes. (10mks)
- b) Outline four product – product relationship in agricultural economics (4mks)
- c) Describe six ways through which farmers can improve labour productivity on the farm (6mks)

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