

Name: Index No:

Candidate's Signature:

Date:

443/1
AGRICULTURE
PAPER 1
JULY/AUGUST 2014
TIME: 2 HOURS

MIGORI SUB-COUNTY JOINT EVALUATION EXAM

Kenya Certificate of Secondary Education

443/1
Agriculture
Paper 1
2 hours

INSTRUCTIONS TO CANDIDATES:

- This paper contains **three** sections A, B and C
- Answer **ALL** the questions in section A and B
- Answer any **Two** questions from section C
- All answers should be written in the spaces provided.

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAX SCORE	CANDIDATES SCORE
A	1-14	30	
B	15-18	20	
C		20	
		20	
TOTAL		90	

This paper consists of 8 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A (30 MARKS)

Answer ALL the questions in this section in the spaces provided

1. Give **four** reasons why seed selection is important in crop production (2mks)
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.....
.....
2. State **four** benefits of a good soil structure to crop production (2mks)
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.....
.....
3. (a) Define the terms (1mk)
(i) Afforestation
.....
(ii) Re-afforestation
.....
- (b) State **four** ways by which afforestation helps in land reclamation (2mks)
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.....
4. List **four** ways of applying fertilizer in crops (2mks)
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5. State any **four** factors that determine the spacing of annual crops (2mks)
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6. Give **four** ways by which farmers minimize grain losses in stores (2mks)
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.....
7. At what stage of growth should tomato seedlings be transplanted (1mk)
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.....

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8. Give reasons for carrying out each of the following practices in a tomato nursery (2mks)
- (i) Pricking out
.....
.....
 - (ii) Hardening off
.....
.....
9. List **four** materials used for constructing a gabion (2mks)
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.....
10. State **four** control measures of maize streak viral disease (2mks)
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.....
11. (a) Differentiate between undersowing and oversowing in pasture management (1mk)
.....
.....
- (b) State **four** advantages of undersowing in pasture production (2mks)
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.....
.....
12. (a) Under what conditions would a farmer's business be described as solvent (1mk)
.....
.....
.....
- (b) State **four** ways in which a farmer can increase production efficiency without incurring extra cost (2mks)
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.....
13. Explain the following terms as used in farm accounting (2mks)
- (i) Cash account
.....
.....
 - (ii) Ledger
.....
.....
14. List **four** benefits a farmer would derive from being a member of dairy co-operative society (2mks)
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SECTION B (20MARKS)

Answer ALL Questions in this section

15. The diagram below shows a common weed in crop land, use it to answer questions below

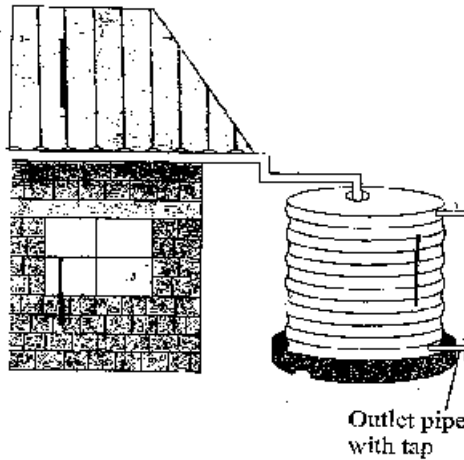


(a) Identify the weed (1mk)

(b) State **two** harmful effect of the above weed to crop production (2mks)

(c) List **two** morphological features of a weed that influence its selectivity to herbicides (2mks)

16. The diagram below shows a structure used in collecting water in the farm



(a) Identify the method of collection above (1mk)

(b) Give **two** factors that will determine the amount of water collected in the above mentioned structure (2mks)

(c) Outline **one** maintenance practice that should be carried out on part labeled C above (2mks)

(d) Name **one** other method used in collecting water in the farm (1mk)

17. Describe the procedure of sampling soil for testing (5mks)

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18. The following information was obtained from Mr. Onyangos farm. Study it and prepare a balance sheet for the farm for the ending 31st December 2013.

5 year loan to the bank	450,000
Land	650,000
1 year loan with AFC	150,000
Creditors	47,000
Unpaid wages	23,000
Owners equity	549,000
Buildings	370,000
Chicken	180,000
Chicken feed	15,000
Cash at hand	10,000

(a) Prepare a balance sheet using the above information (4 ½ mks)

(b) Is the farm solvent or insolvent (½ mk)

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SECTION C (40MARKS)

Answer any two Questions in this section

19. (a) Explain how climate influence the rate of soil formation in a given region (6mks)
- (b) Describe **five** factors that are considered in choosing seed rates (10msk)
- (c) Outline **four** problems associated with land fragmentation (4mks)
20. (a) Describe rice production under the following subheadings
- (i) Land preparation (5mks)
 - (ii) Water control (5mks)
 - (iii) Fertilizer application (2mks)
- (b) Describe the various agricultural services available to farmers in Kenya (8mks)
21. (a) Describe the various methods of tree harvesting (6mks)
- (b) Explain the various methods of cultural disease control (9mks)
- (c) Outline the procedure of preparing a vegetable nursery (5mks)

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