

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)
.....

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)

10. State **four** control measures of maize streak viral disease (2mks)

11. (a) Differentiate between undersowing and oversowing in pasture management (1mk)

(b) State **four** advantages of undersowing in pasture production (2mks)

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)

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)

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

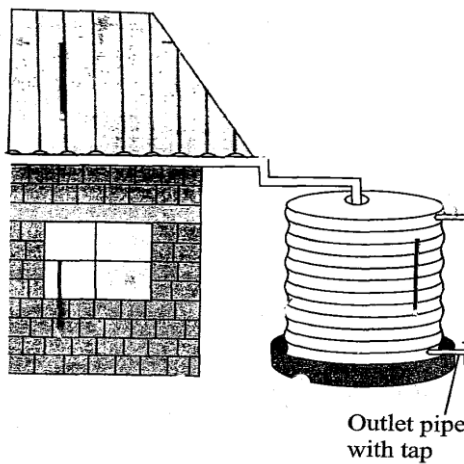


(a) Identify the weed (1mk)

(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)

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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 of insolvent (½ mk)

.....

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 (10mks)
- (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)

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ANSWERS:

Order a copy of answers from www.schoolsnetkenya.com/order-e-copy

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