

Name.....

Index No.

School.....

443/1

AGRICULTURE

Paper 1

July / August - 2014

Time: 2 Hours

MMS JOINT EXAMINATION - 2014

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

443/1

AGRICULTURE

Paper 1

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Time: 2 Hours

INSTRUCTION TO CANDIDATES

- Write your name and Index number in the spaces provided above.
- This paper consists of THREE section A, B and C
- Answer ALL the questions in section A and B and any Two questions in section C.
- Answers should be written in the spaces provided.

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 18	30	
B	19 – 21	20	
C	22 – 24	40	

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 (25 Marks)

1. State four effects of high temperature on crop production. (2mks)

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2. Outline four farming practices carried out to minimize tillage cultivation. (2mks)

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3. Differentiate between a dam and a weir. (1mk)

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4. State four problems associated with the use of organic manure in crop production. (2mks)

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5. Mention four information's which should be kept by the farmer in health record. (2mks)

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6. List four sources of soil acidity in the soil. (2mks)

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7. State two advantages of cutting back in a crop of pyrethrum. (1mk)

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8. Give two disadvantages of using a mixed cropping system in crop production. (1mk)

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9. State four factors that influence mass wasting. (2mks)

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10. Mention four cultural practices used in controlling weeds in crop production. (2mks)

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11. State three ways by which a farmer can control the maize stalk borer in the field. (1 ½ mks)

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12. Give three reasons why bulbils are the most preferred materials used in crop propagation. (1 ½ mks)

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13. State four reasons why maize for silage making is harvested at milk stage. (2mks)

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14. a) What is the importance of land register in land adjudication and registration process. (1mk)

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b) State two conditions that lead to sub-division of Agricultural land. (1mk)

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15. State two ways in which the Government can influence Agriculture. (1mk)

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16. Mention three conditions which a farmer should fulfill in order to be credit worth. (1 ½ mks)

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17. State four ways in which farmers can improve labour productivity on their farms. (2mks)

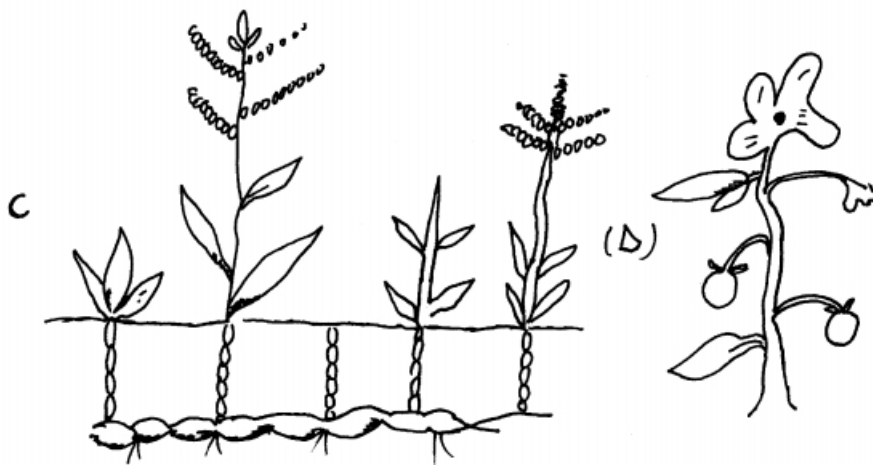
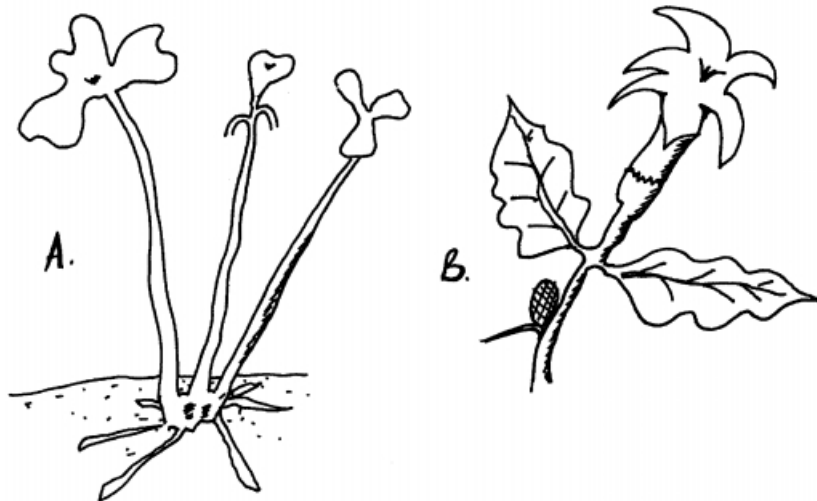
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18. Give three examples of Agro-forestry trees used as forage. (1 ½ mks)

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SECTION B

19. Study the weed below and answer the questions that follow.



a) Identify the weeds.

A: (½ mk)

B: (½ mk)

C: (½ mk)

D: (½ mk)

b) State 2 reasons why weed A is successful to survive on the farms. (2mks)

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c) Why is weed C very difficult to control on the farm. (1mk)

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d) State four ways which the above weeds affect maize crops on the farm. (2mks)

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20. a) Below are drawings of Irish potato tubers after being subjected to some conditions in preparation for planting

L1



Before subjecting
to the conditions

L2



After subjecting
to the conditions

(i) Which process of potato treatment is illustrated above. (1mk)

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.....

(ii) State two conditions necessary for the above process. (1mk)

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(iii) Give two reasons of carrying out the above practice. (2mks)

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b) (i) Identify the crop represented by the diagram below.

(1mk)



(ii) Name two serious pests and diseases in each case which can attack the above named crop in the field. (2mks)

Diseases

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Pests

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(iii) Name two methods used in controlling birds in the field planted with the above named crop. (2mks)

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21. Below is a list of transactions of Namanjalala farm.

1. On 6th, sold sales for cash at shs. 1,800/=
2. Feb. 10th bought 3 heifers by cheque at shs. 9,000/=
3. Feb. 14th sold milk worth shs. 1,500/= and posted the money in the bank.
4. Feb. 25th purchased cabbage seedlings in cash at shs. 200/=

Post the above transaction in Namanjalala farm journal below.

(4mks)

Date	Ledger	Ledger folio	DR		CR	
			Shs	Cts	Shs	Cts

SECTION C

22. Describe the harvesting of
- a) Sugar cane
 - b) Coffee, under the following sub-headings.
 - (i) Stage of harvesting
 - (ii) Precautions when harvesting. (20mks)
23. a) Describe the factors to consider when selecting a farm enterprise . (15mks)
- b) State the procedure used in soil sampling. (5mks)
24. a) Define the term ‘partial budget’. (2mks)
- b) A farmer has 20 acres of land, 5 acres of which are under a permanent cash crop (Tea). Of the remaining 15, atleast half must be resting at any one time. This year, the farmer intends on using 6 acres on cotton. With the previous cotton crops the farmer hired casual labour at the rate of 40 men days per acre at the rate of Kshs.50/= per Man day. The farmer is considering replacing casual labour with a hired tractor (combine) doing the work for Ksh. 2000/= per acre. The farmer anticipates that using the tractor will cause an increase in average cotton yield from 500kg to 600kg seed cotton per acre worth Kshs.30/= per kg from better cultivation and more timely planting. Harvesting costs are Ksh.50/= per 100kg seed cotton. Prepare a partial budget and advice the farmer whether the change is worthwhile or not.
- c) Explain agricultural support services available to farmers. (8mks)

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