

NAME: INDEX NO:

CANDIDATE'S SIGNATURE:

DATE :

443/1

AGRICULTURE

PAPER 1

JULY / AUGUST 2013

TIME: 2 HOURS

NANDI NORTH DISTRICT JOINT MOCK 2013

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

AGRICULTURE

PAPER 1

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) Write your name and Index number in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided above.
- (c) This paper consists of *THREE* sections A, B and C.
- (d) Answer *ALL* questions in Section A and B.
- (e) Answer any *TWO* questions in section C.
- (f) Answers should be written in the spaces provided.
- (g) This paper consists of 10 printed pages.
- (h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAX. SCORE	CANDIDATE SCORE
A	1 – 19	30	
B	20 – 23	20	
C		20	
		20	
Total Score		90	

SECTION A (30 MARKS)

Answer ALL Questions in the Spaces Provided

1. State **two** ways in which human health affects agricultural production. (1mk)

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2. Name an APPROPRIATE vegetative material in propagating the following crops:

(i) Cassava:..... (½ mk)

(ii) Irish Potatoes:..... (½ mk)

(iii) Sweet potatoes: (½ mk)

3. List down **four** important features of a cash sale receipt. (2mks)

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4. State **three** advantages of using tissue culture in crop propagation. (1½mks)

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5. Outline **three** ways in which wind positively affects agricultural production. (1½mks)

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6. Name **three** agro-forestry practices carried out in the farms. (1½mks)

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7. State **three** precautions taken when harvesting pyrethrum. (1½mks)

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8. Mention **four** characteristics of nitrogenous fertilizers. (2mks)

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9. What is a ratoon crop? (1mk)

10. List **three** sources of capital to a farmer who intends to start farming. (1½mks)

11. List any **three** ways to be employed in solving the problem of perishability in horticultural crops. (1½mks)

12. Distinguish between the following terms:- (2mks)

(i) Soil texture and soil structure

(ii) Seed dressing and seed inoculation.

13. State **two** effects of good soil aeration in crop growth. (1mk)

14. (a) Explain why it is important to have regular root pruning in crop production. (1mk)

(b) Give **three** reasons for raising tea in polythene sleeves. (1½mks)

15. Give **one** term used to explain a market condition where there is: (1mk)

(i) Sole seller:.....

(ii) Sole buyer:.....

16. Mention **three** factors that determine the carrying capacity of a pasture. (1½mks)

17. Outline **three** possible causes of chlorosis in crop production. (1½mk)

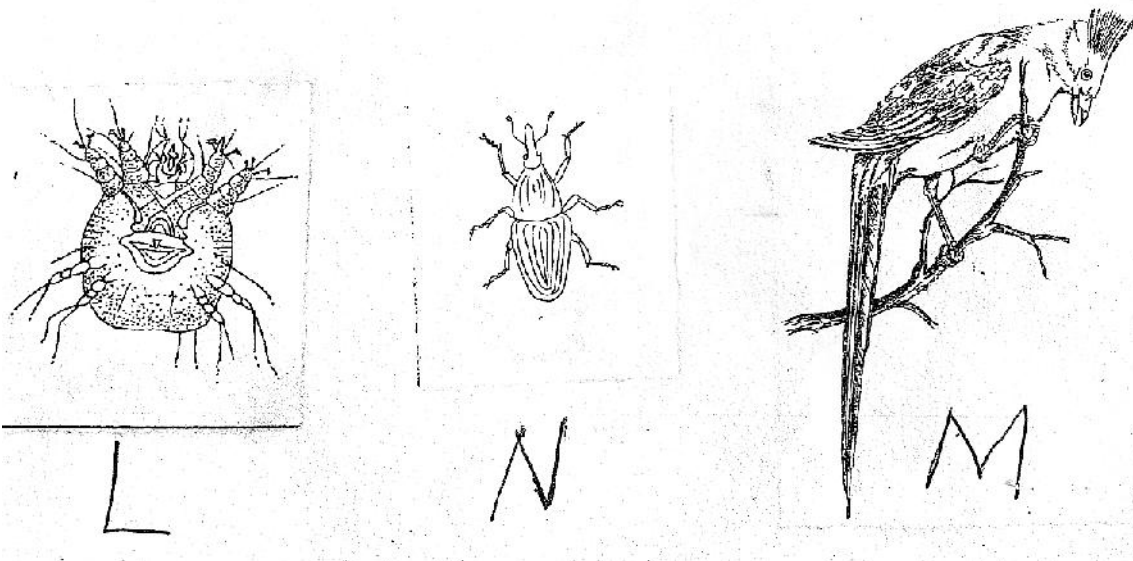
18. State **four** land reform programmes undertaken in Kenya. (2mks)

19. List any **four** financial documents used in agricultural economics. (2mks)

SECTION B (20 MARKS)

Answer all questions in the spaces provided in this section

20. The diagrams below illustrate both field and storage pests.



(a) Identify the pests in the illustration: (1½mks)

L:

M:

N:

(b) State ways in which pests L and M cause damage to crops. (1mk)

L:

M:

- (c) State **three** control measures for the pest N. (1½mks)

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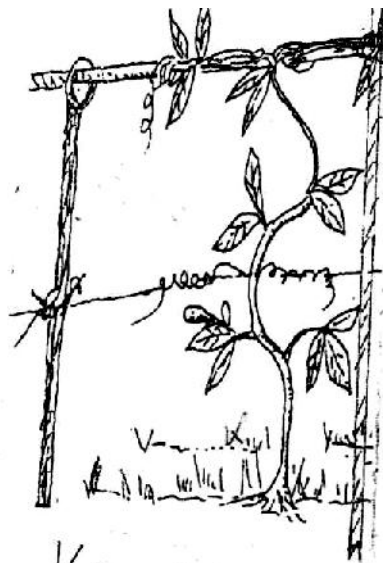
- (d) Outline **two** damages caused by nematodes on crops. (1mk)

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21. The diagrams below show some of the field practices carried out in the farm in order to obtain optimum yield.



K₁



K₂



K₃

- (a) Identify illustration K₁, K₂ and K₃. (1mk)

K₁:

K₂:

K₃:

- (b) Give **three** reasons why the practice K₁ is carried out on Irish potatoes.

(1½mks)

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- (c) Outline **two** conditions that may necessitate the use of K₃ as a method in fertilizer application.

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- (d) Apart from K₂ mention other two methods of training crops. (1mk)

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22. The diagram below shows a method of soil sampling.



- (a) Name the above method. (1mk)

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- (b) State three precautions taken when collecting the soil for testing using the named method. (1½ mks)

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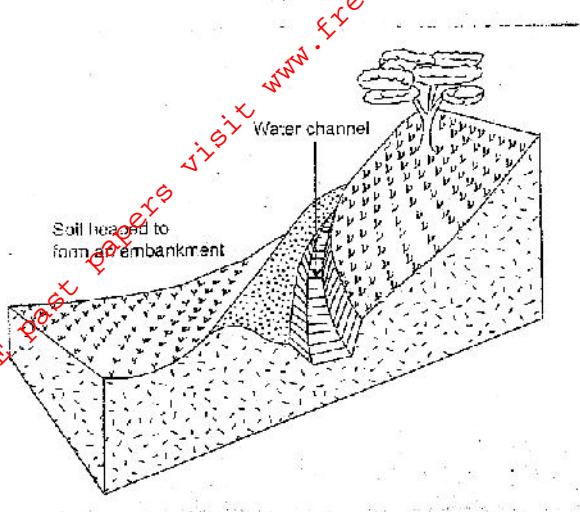
- (c) Give three reasons why soil from the farm is tested. (1½ mks)

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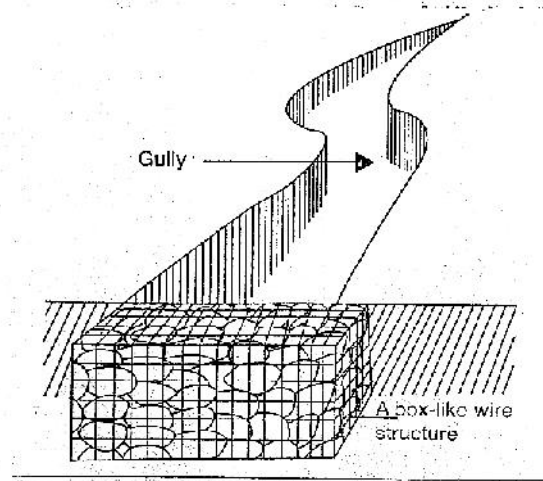
- (d) Give the information found in the envelope of a sub-sample being taken to the laboratory for testing. (1½ mks)

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23. The illustrations labelled S and T below show some structural methods used in soil and water conservation.



S



T

(i) Identify the structures S and T.

(1mk)

S:

T:

(ii) State the function of the embankment in diagram S.

(½ mk)

.....

(iii) State **two** ways in which structure T help to control soil erosion.

(1mk)

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.....

(iv) State **four** methods of harvesting water on the farms.

(2mks)

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SECTION C

Answer any two questions in the spaces provided

24. (a) Outline five qualities of a good farm manager. (5mks)
- (b) Explain three importance of budgeting. (3mks)
- (c) Study the following information which was extracted from Mr. Kolum's farm records on 31/12/2012 and answer the questions below:

	Kshs.
Loans payable to Bank	300,000
Five milking cows	250,000
20 goats	30,000
400 Layers	80,000
Debts payable to co-op society	20,000
Building and structures	600,000
Bonus payable to workers	19,000
Cattle feed in store	10,000
Debt receivable	18,000
Animal drugs in store	4,000
Breakages to repair	30,000
Cash at hand	20,000
Cash in bank	30,000
Spray equipment	20,000

- (i) Prepare a balance sheet for Mr. Kolum's farm using the information above. (9mks)
- (ii) Was Mr. Kolum's business solvent or insolvent? (1mk)
- (iii) Apart from a balance sheet, name two other financial statements which can be used in a farm business. (2mks)

25. (a) Explain the production of onions (Allium Cepa) under the following sub-headings:-

- (i) Ecological requirements. (2mks)
- (ii) Planting (2mks)
- (iii) Field practices (2mks)

(2mks)

(2mks)

(7mks)

(3mks)

(2mks)

(18mks)

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