

NAME: INDEX NO:

SIGNATURE: DATE :

443/1
AGRICULTURE
PAPER 1
JULY / AUGUST 2011
TIME: 2 HOURS

NANDI EAST, NANDI SOUTH AND TINDERET DISTRICTS
JOINT EVALUATION TEST
KENYA CERTIFICATE OF SECONDARY EDUCATION (KCSE)

INSTRUCTIONS TO CANDIDATES:

- (a) Write your name and Index number in the spaces provided.
- (b) Sign and write the date of examination in the spaces provided.
- (c) This paper consists of *THREE* sections A, B and c.
- (d) Answer *ALL* questions in Section A and B and any two in Section C.
- (e) All answers *MUST BE* written in the spaces provided in this booklet.
- (f) Do not remove any pages from this booklet.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAX. SCORE	CANDIDATE SCORE
A	1 – 16	30	
B	17 – 20	20	
C		40	
Total Score		90	

SECTION A (30 MARKS)

Answer ALL Questions in the Spaces Provided

1. Outline **two** importance of sub-soiling in crop production. (1mk)

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2. State **two** liming elements in Agriculture. (1mk)

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3. State **two** factors to consider when identifying a farming system. (1mk)

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4. Arrange the following documents in order of use in business transaction:

Invoice, Quotation, Receipt, Delivery Note and Purchase Order. (2 ½ mks)

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5. State **four** reasons for treating water in the farm. (2mks)

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6. (a) What is opportunity cost? (1mk)

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(b) State **four** importances of farm records. (2mks)

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7. Give **four** reasons for ridging sweet potatoes. (2mks)

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8. List any **four** ways in which soil is deprived of its fertility. (2mks)

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9. State **four** factors that influence the demand for Agricultural goods. (2mks)

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10. Mr. Rono is preparing to grow a crop of wheat on a three hectare plot. Wheat requires 60kg P₂O₅ per hectare. The fertilizer available in Eldoret town is Single Super Phosphate (SSP) 20% P₂O₅. Calculate the amount of fertilizer the farmer will require to apply on his farm (show your workings) (2mks)

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11. State **two** reasons why too much air in the silo is undesirable in the process of silage making. (2mks)

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12. State **two** problems associated with tractor hire services that farmers encounter. (2mks)

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13. Explain any **three** damages caused to field crops by rodents. (1½mks)

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14. (a) What are variable inputs? (1mk)

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(b) State **two** characteristics of variable inputs. (2mks)

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15. State **three** ways in which afforestation help in land reclamation. (1½ mks)

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16. Give three general symptoms of fungal diseases in crops. (1½ mks)

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SECTION B: (20 MARKS)

Answer ALL the questions in this question

17. The Photograph below shows a weed. Use it to answer questions that follow.

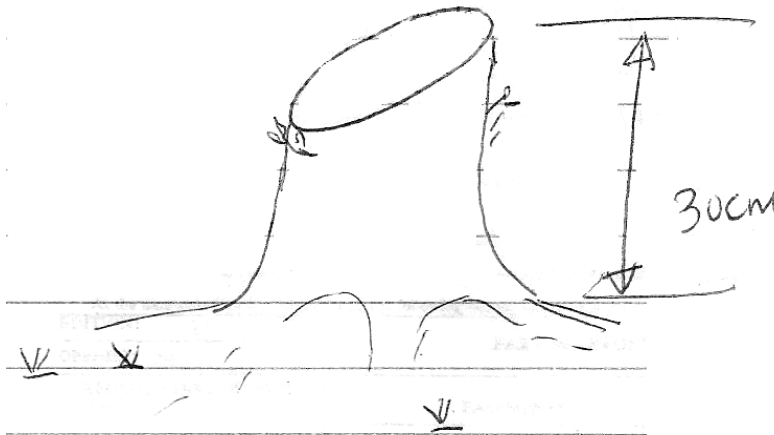
(a) Identify the weed. (½mk)

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(b) State the economic importance of the weed. (3mks)

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18. Below is a diagram of a tree harvesting method.



(a) Identify the tree harvesting method shown in the diagram above. (½ mk)

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(b) Name other tree harvesting methods apart from the one shown above. (1mk)

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(c) State **three** desirable characteristics of agro-forestry tree species. (1½mks)

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(d) Name **two** forms of agro-forestry. (1mk)

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19. Study the document given below and then answer the questions that follow:

(To be completed only when the applicant has paid the fee of Sh. 50)

At the date stated on the front hereof, the following entries appeared in the register relating to the land:

REGISTRATION SECTION		EASEMENTS, ETC.		NATURE OF TITLE	
EDITION:	1				
OPENED:	28.5.91				
BLOCK I					
PARCEL NUMBER	564				
APPROXIMATE AREA	2.020 Ha.				ABSOLUTE
REGISTRY MAP SHEET No.	4				

PART B—PROPRIETORSHIP SECTION					
ENTRY NO.	DATE	NAME OF REGISTERED PROPRIETOR	ADDRESS AND DESCRIPTION OF REGISTERED PROPRIETOR	CONSIDERATION AND REMARKS	SIGNATURE OF REGISTRAR
1	28.5.91	MARGARET OKOTH			

(a) Identify the document. (½ mk)

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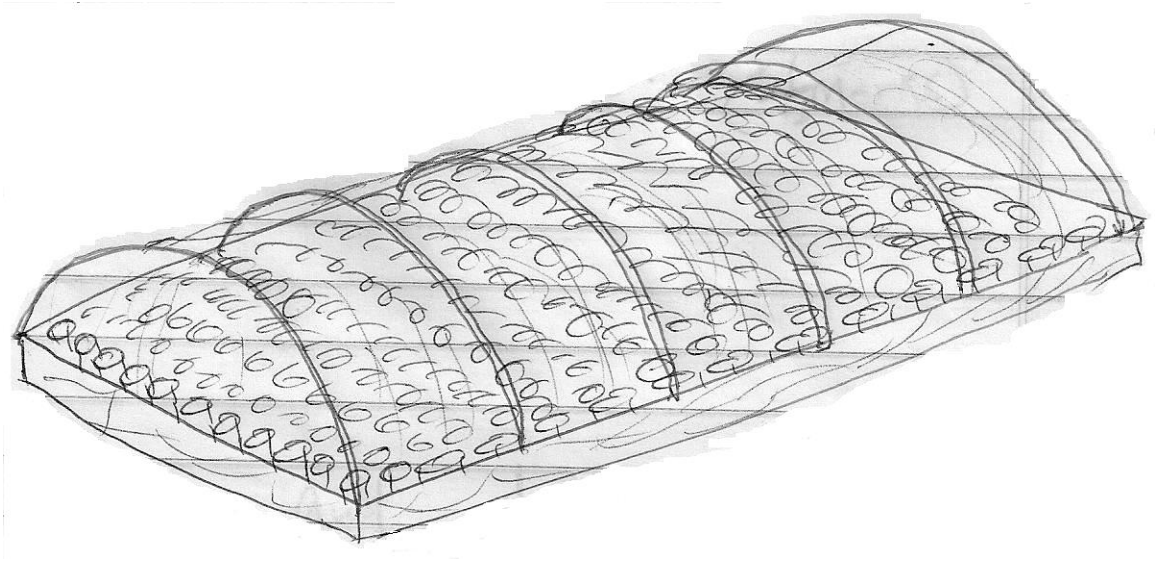
(b) State any **three** official information contained in the document in (a) above. (3mks)

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(c) Give **two** importance of possessing the document in (a) above by farmers. (2mks)

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20. Study the diagram given below and answer the questions that follow:-



(a) Identify the type of nursery illustrated above. (1mk)

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(b) State the importance of the transparent polythene sheet. (1mk)

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(c) What are the practices carried out when the seedlings are establishing in the structure above. (3mks)

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(d) State the advantages of using seedling boxes over ground nurseries. (2mks)

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SECTION C: (40 MARKS)

Answer any two questions in this section in spaces provided

21. (a) Discuss cabbages under the following sub-headings:-

(i) Ecological requirements: (2½mks)

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(ii) Pests and Diseases control (5mks)

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(iii) Harvesting (2½ mks)

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(b) Describe **six** routine management practices that are carried out to control crop diseases.

(6mks)

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(c) State **four** problems associated with fragmentation and subdivision of land.

(4mks)

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22. (a) Explain climatic conditions that lead to low crop yields in Rift Valley.

(6mks)

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(b) Give **four** reasons why a well drained soil is suitable for crop production. (4mks)

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(c) Discuss factors that determine spacing of crops. (6mks)

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(d) Outline the procedure of establishing a nursery bed. (4mks)

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23. (a) Briefly describe the **four** types of water erosion. (6mks)

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(b) State the factors that would influence soil erosion. (4mks)

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(c) Describe **five** marketing functions involved in marketing tomatoes in Kenya. (5mks)

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(d) Explain ways through which farmers increase labour productivity. (5mks)

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