

NAME.....INDEX NO.....

SCHOOL.....SIGNATURE.....

443/1
AGRICULTURE
PAPER 1
JUNE -2016
TIME: 2 HOURS

CENTRAL YEARLY MEETING OF FRIENDS (CYMF) -2016
Kenya Certificate of Secondary Education (K.C.S.E)

INSTRUCTIONS TO CANDIDATES

- a) Write your name, school and index number in the spaces provided above
- b) Sign and write the date of the examination in the spaces provided above
- c) This paper consists of **THREE** sections A,B and C
- d) Answer all the questions in section A,B and any **TWO** in the section C

For examiners use only

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 -19	30	
B	20 – 25	20	
C	Q	20	
	Q	20	
TOTAL SCORE		90	

This paper consists of 9 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing.

SECTION A:30 MARKS

Answer ALL questions in this section in the spaces provided

1. Define the term pomology as used in crop production (1 ½ mks)

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- (b) Give three effects of low temperature in crop production (1 ½ mks)

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2. List four factors considered when siting a compost pit on the farm (2mks)

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3. (a) Outline three ways how weeds lower the quality of agricultural produce (1 ½ mks)

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- b) How does timely planting help to control weeds? (½ mks)

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4. Give four factors that affect the depth of planting (2mks)

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5. Outline four disadvantages of using seeds as planting materials (2mks)

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6. (a) State two practices carried out during the hardening off of tomatoes seedlings (1mk)

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(b) Define the term chitting as used in Agriculture (1mk)

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7. State two advantages of ridging in land preparation (1mk)

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8. (a) Name two methods of soil sampling (1mk)

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(b) Name the plant parts used for vegetative propagation of the named crops (1mk)

(i) Sweet potatoes.....

(ii) Sugarcane.....

9. List four factors that lead to land fragmentation (2mks)

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10. Give two uses of mulching in soil and water conservation (2mks)

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11. (a) State three advantages of paddocking as a grazing system (1 1/2mks)

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(b) Give a reason why Columbus grass should be dried before feeding to livestock (1/2mks)

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12. State three reasons why health records should be kept on the farm (1 1/2mks)

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13. Give three methods for controlling Blossom-end rot in tomatoes (1 1/2mks)

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14. State two sources of agricultural credit to farmers (2mks)

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15. Name the chemical used to coagulate solid particles during water treatment (1 1/2mks)

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16. Give two harmful effects of crop diseases (1mk)

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17. Define the term land adjudication (1mk)

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18. State two limitations of plastic pipes in conveyance of water on the farm (1 1/2mks)

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19. Name the financial documents used on the farm for the following purposes (1mk)

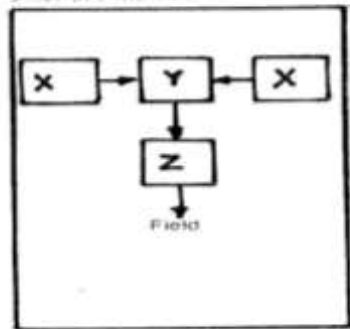
(a) A document that accompanies goods on delivery.....

(b) A document issued when cash payment for delivery of services rendered.....

SECTION B:20MARKS)

Answer all questions in this section in the spaces provided

20. The diagram below illustrates a method used in preparation of manure on farm.



Study it carefully and answer the questions that follow.

(a) Name the method illustrated above (1mk)

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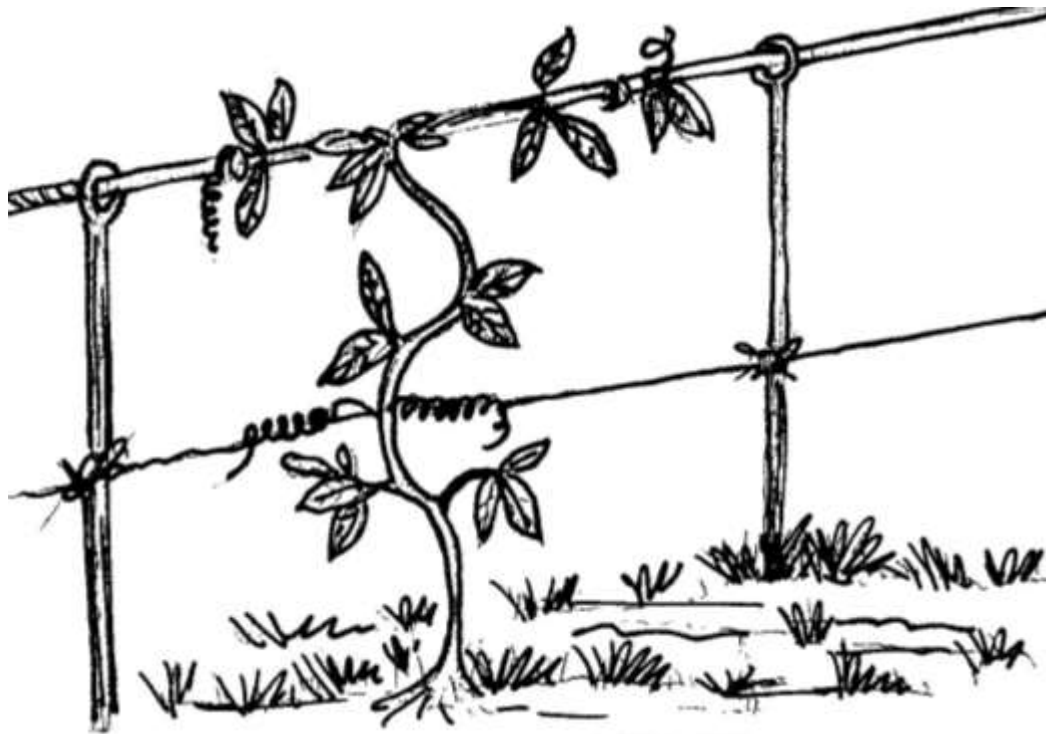
(b) State a reason why the materials used should be frequently turned (1mk)

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(c) State two limitations of manure use in crop production (2mks)

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21. The diagram below shows an agronomic practice carried out on some crops. Study it carefully and answers the questions that follow.



(a) Name the agronomic practice shown above (1mk)

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(b) Name one crop where farmers are encouraged to carry out the above practices (1mk)

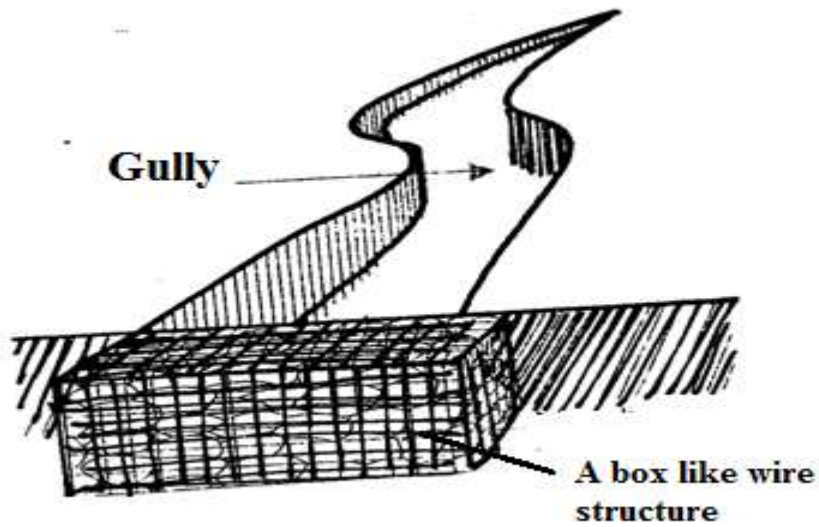
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(c) State the importance of earthing up in the production of

(i) Groundnuts..... (1/2mk)

(ii) Tobacco.....(1/2mk)

22. The diagram below shows a structure used on the farm for soil and water conservation.



(a) Name the above structure (1mk)

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(b) State two ways how the structure above is useful in soil and water conservation (2mks)

(c)
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23. The illustration below shows a method used in irrigation of crops on the farm



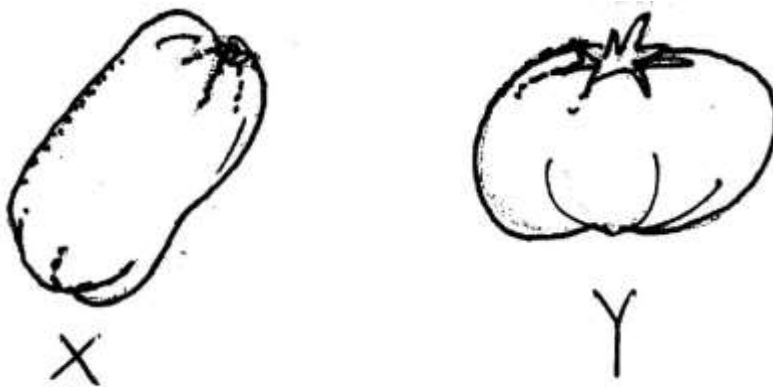
(a) Name the method of irrigation shown above (1mk)

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(b) State two advantages of the irrigation methods shown above (2mks)

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24. The diagrams below illustrates tomatoes fruits of different varieties



(a) Name the tomatoes variety labelled

- (i) X.....
- (ii) Y.....

(b) What quality does the tomato fruit labeled X have over Y? (1mk)

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(c) Calculate the plant population of tomatoes in a plot measuring 17m x13m spaced at 90x60cm show your working (2mks)

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25. The diagrams below illustrates some crop pests a on the farm

- (a) Name the crop pest labeled S (1mk)
- (b) Name two methods suitable to control the pest labeled S (1mk)
- (c) State one damage caused by pest P (1mk)

SECTION C :(40 MARKS)

Answer any two questions from this section in the spaces provided after question 28

- 26. (a) Outline five reasons why the nursery is important in crop propagation (5mks)
- (b) Outline five factors considered when selecting a suitable site for nursery establishment (5mks)
- (c) Describe five nursery management practices (10mks)
- 27. Describe the cultural methods of crop pest control (20mks)
- 28. (a) State four characteristics of fertile soils (4mks)
- (b) State and explain six ways how soil loses fertility (12mks)
- (c) Outline four characteristics of the top soil in a soil profile (4mks)

