

NAME:INDEX NO:

SCHOOL:CANDIDATE'S SIGN.....

443/1

AGRICULTURE

PAPER 1

AUGUST/SEPTEMBER 2021

Time: 2 HOURS

BUNYORE-MARANDA SCHOOLS PRE-MOCK EXAMINATION

Kenya Certificate of Secondary Education

AGRICULTURE

PAPER 1

AUGUST/SEPTEMBER 2021

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INSTRUCTION TO CANDIDATES

- This paper consists of THREE sections: A, B and C.
- Answer ALL questions in section A and B
- And ANY Two questions from section C

SECTION	MARKS	CAND. SCORE
A	30	
B	20	
C	40	
TOTAL SCORE	90	

Section A (30 marks) Answer all questions in this section.

1. Name two crops grown in Kenya for the fresh flower export market. (1 mark)
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-
-
2. Name four communication channels through which farmers' access knowledge on farming. (2 marks)
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-
-
-
-
3. State four ways in which burning leads to loss of fertility. (2 marks)
-
-
-
-
-
4. a) Define the term minimum tillage. (1/2 mk)
-
-
-
- b) Name any four farming practices involved in minimum tillage. (2 marks)
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-
-
- 5a) List three types of individual land tenure systems. (1 ½ mks)
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-
-

- b) Define co-operative land tenure system. (1/2 mk)

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6. a) Give two differences between a dam and a weir. (1 mark)

dam	weir

- b) List two surface water sources for farming. (1 mark)

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7. State four ways in which treating water makes the water fit for use on farm.

(2 marks)

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8. a) Define leaching. (1/2 mk)

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- b) Give three benefits of deep soil to a crop. (1 ½ mks)

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9. Give three benefits of spacing maize plants widely. (1 ½ mks)

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10. State four reasons for conserving forage. (2 marks)
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.....
11. State two ways in which pruning tomatoes helps to control diseases in this crop. (1 mark)
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.....
.....
12. Explain each of the following:
- a) Slopy land requires little number of cultivations. (1/2 mk)
.....
.....
- b) A field with rhizomatous weeds requires deep cultivation. (1/2 mk)
.....
.....
- c) Irish potatoes are raised on ridges, rather than on leveled land (1/2 mk)
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13. State four reasons for carrying out primary tillage. (2 marks)
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14. State two positive effects of winds on agriculture. (1 mark)
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15. Distinguish between seed dressing and seed inoculation. (1 mark)
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16. State two ways in which soil pH3 can be raised to pH6.5 (1 mark)

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17. Name any three insect pests with biting and chewing mouthparts. (1 ½ mks)

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18. Name any four early maturing varieties of cabbages. (2 marks)

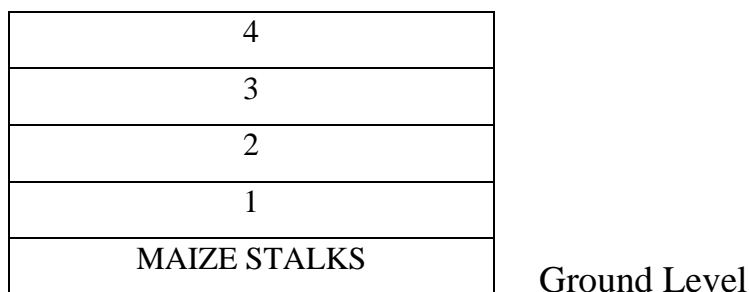
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Section B (20 marks) Answer all questions in this section in the spaces provided.

19. Shown below is a layout of a compost heap. Study it carefully and then answer the questions that follow.



a) Name the materials in each of the parts labeled 1, 2, 3 and 4. (2 marks)

1.....3.....

2.....4.....

b) State one role of each of the material in the parts labeled 1 and 3. (2 marks)

1.....

2.....

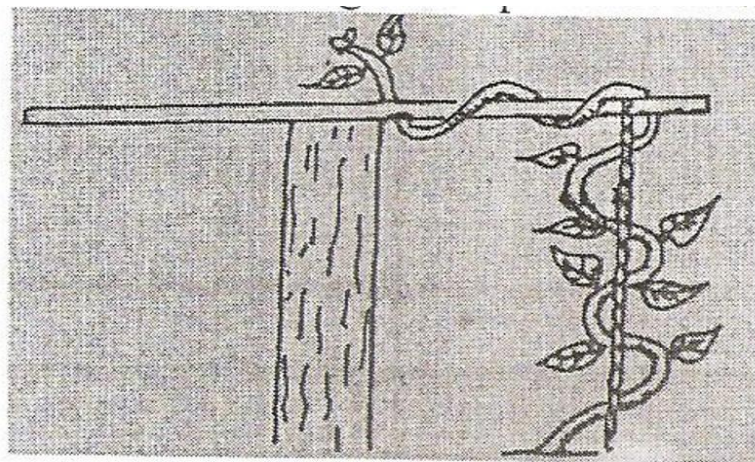
- c) (i) Give one reason for adding water to a compost heap. (1mark)

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- (ii) Give one reason for regularly turning the materials in a compost heap (1 mark)

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20. The diagram below illustrates a field management practice carried out on a fruit crop.



- a) Identify the practical illustrated above. (1 mark)

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- b) Name the most likely crop managed as illustrated in the above. (2 marks)

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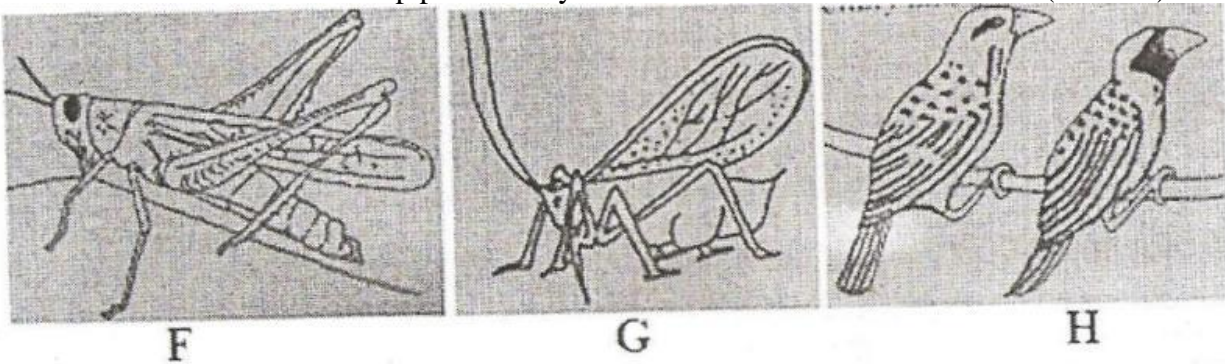
- c) Give two reasons for carrying out the practice illustrated above. (2 marks)

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- d) Name one other method of training crops apart from the one above. (1 mark)

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21. Illustrated below are crop pests. Study the illustrated above. (2 marks)



- a) Identify each of the pests labeled G, G, and H. (1 ½ mks)

F.....

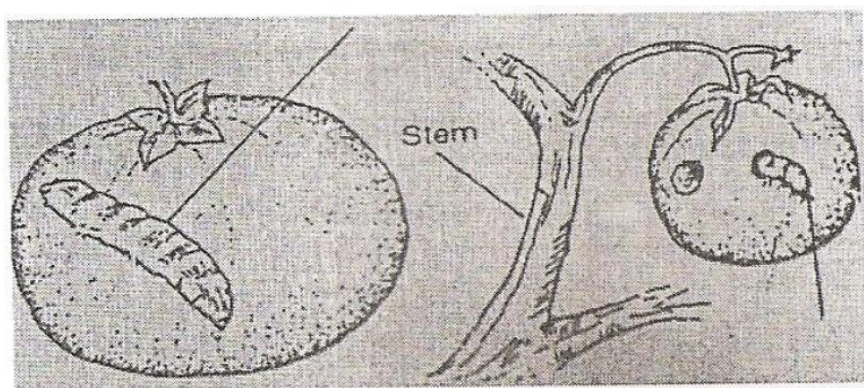
G.....

H.....

- b) State two types of damage caused by pest G to the crops infested. (1 mark)

.....

- c) The diagram below shows a vegetable fruit which has been attacked by pests:



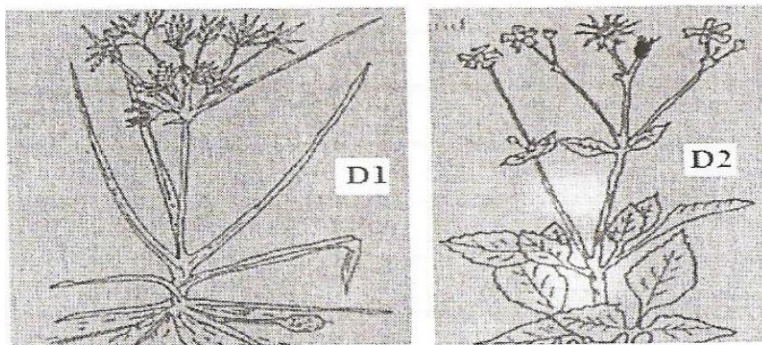
- i) Name the pest shown above. (1/2 mk)

.....

ii) Give one control measure for the above pest. (1 mark)
.....

iii) Name two other pests that affect the same crop. (1 mark)
.....

22. Shown below are diagrams of weeds of arable land.



a) Identify each weed D1 and D2 (1 mark)

D1.....

D2.....

b) Explain why herbicide application is ineffective in controlling the weed labeled D1. (2 marks)

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.....

Section C (40 marks) Answer any two questions in this section

- 23a) Differentiate between land fragmentation and land sub-division (2 marks)
b) Describe the effects of land fragmentation and sub-division (8 marks)
c) Explain the various cultural methods used to control diseases of crops (10 marks)
- 24 a) Outline five effects of temperature on crops. (5 marks)
b) Describe five factors which influence soil formation. (5 marks)
c) Describe ten factors which determine the type of irrigation chosen by a farmer. (10 marks)
- 25a) Explain four factors considered in designing a crop rotation programme (8 marks)
b) Describe five benefits of intercropping food crops. (5 marks)
c) Outline seven post-harvest practices carried out in the production of maize. (7 marks)

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SECTION	MARKS	CAND. SCORE
A	30	
B	20	
C	40	
TOTAL SCORE	90	

Section A (30 marks) Answer all questions in this section.

1. Name three methods of selection in livestock. (1 ½ mks)

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.....
.....

2. a) Name the causal organism of fowl typhoid. (1/2 mk)

.....

- b) List three signs on a carcass which shows that an animal died of anthrax.

(1 ½ mks)

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.....

3. Differentiate between cropping and harvesting in fish farming. (1 mark)

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4. Name four methods of dehorning in cattle rearing. (2 marks)

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5. State four structural requirements of a calf pen. (2 marks)

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.....
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6. Give four characteristics of a good site for a bee hive. (2 marks)

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.....
.....

7. State two functions of an egg shell. (1 mark)

.....
.....

8. State four factors that can affect maintenance requirement of an animal. (2 marks)

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.....
.....

9. Name four parts of a roof on a farm building. (2 marks)

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.....
.....

10. State four disadvantages of nomadic pastoralism system of rearing livestock. (2 marks)

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.....

11. State four signs of heat in cows. (2 marks)

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.....
.....

12. Name two methods of acaricide application onto cattle. (1 mark)

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.....
.....

13. Distinguish between inbreeding and line breeding as used in livestock production.

(1 mark)

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14. State four maintenance requirements of a jack plane.

(2 marks)

.....

.....

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15. State four practices that a farmer should carry out to reduce egg eating in poultry.

(2 marks)

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16. a) Give two features of a good laying nets.

(1 mark)

.....

.....

b) Give three reasons why a young calf must be fed on colostrums during the first few days of birth.

(1 ½ mk)

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17. State two reasons why calcium and phosphorus are important in the diet of young livestock.

(1 mark)

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.....

18. Name two kinds of livestock which can be castrated using a rubber ring. (1 mark)

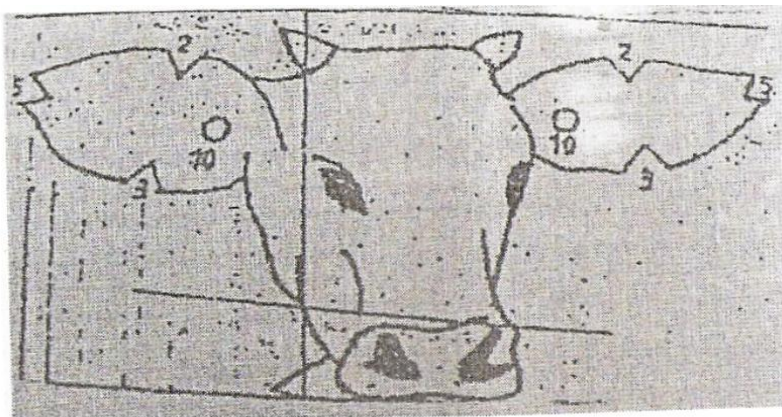
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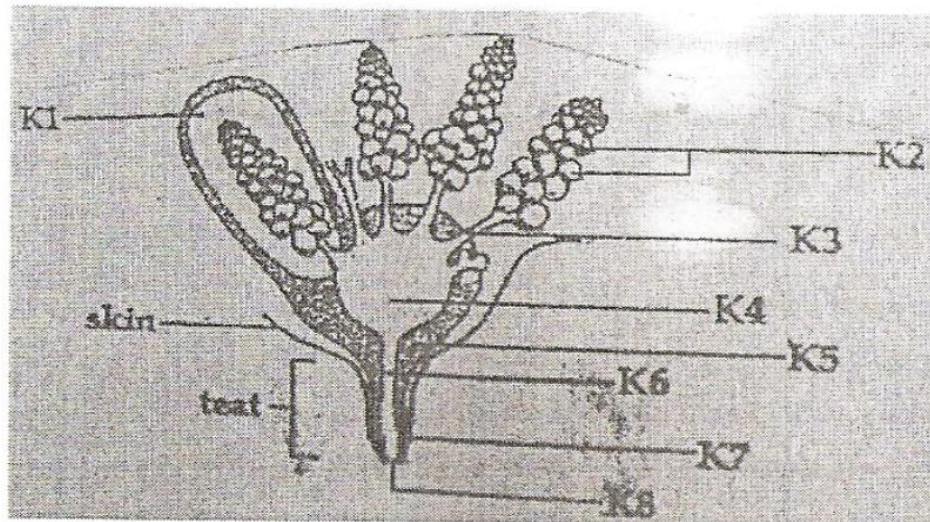
Section B (20 marks) Answer all questions in this section

19. The diagram below illustrates a method of identification in livestock production. Study the diagram and answer the questions that follows:



- a) (i) Name the type of identification illustrated (1 mark)
-
-
- (ii) Give the identification number of the animal illustrated in the diagram. (1 mark)
-
-
- (iii) Using diagram illustrate how you can identify animals numbers 24 and 36 using the method. (2 marks)
-
-
-
-
-
- b) How can a farmer improve each of the following:
- (i) Hardness of egg shell. (1/2 mk)
-
-
- (ii) Yellowness of the egg yolk. (1/2 mk)
-
-

20. Shown below is a section through the mammary gland of a cow. Study the section carefully and answer the questions that follow:



- a) On the diagram name the parts labeled K1, K2, K3, K4, K5, K6, K7 and K8.

(4 marks)

K1.....K5.....
 K2.....K6.....
 K3.....K7.....
 K4.....K8.....

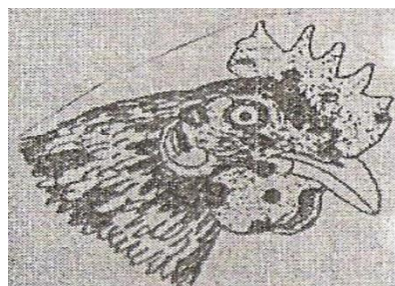
- b) Indicate one letter representing the part responsible for lactogenesis.....

(1 mark)

- c) Lactogenesis is controlled by a hormone.....which is secreted by the pituitary gland.

(1 mark)

21. The following diagram illustrates symptoms of a disease in poultry. Study it carefully and answer the questions that follow:



a) Identify:

- (i) The disease..... (1/2 mk)
(ii) The causal organism..... (1/2 mk)

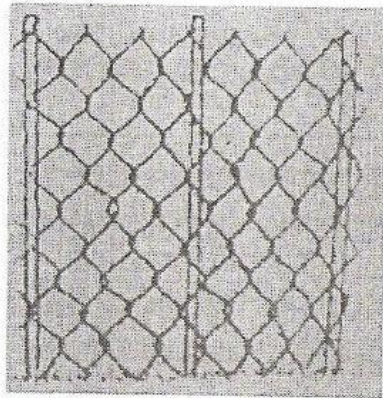
b) Apart from lesions, state two other symptoms of the disease. (2 mks)

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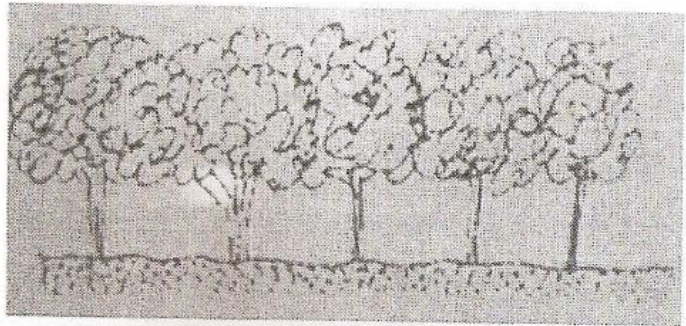
c) State two control measures for the disease. (2 mks)

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22. Study the illustrations of fences below and answer the questions that follow:



X



Y

a) Name the type of fences illustrated above. (1 mark)

X.....

Y.....

b) Name the correct tool used in maintenance of fence Y. (1 mark)

.....

c) State two advantages that fence y may have over fence X. (2 marks)

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Section C (40 marks) Answer any two questions in this section

- 23.a) Describe the characteristics of eggs selected for incubation. (5 marks)
- b) Discuss five factors which affect the quality of honey (5 marks)
- c) Describe the management of growers from the 9th week to the point of lay. (10 marks)

- 24a) Identify and give functions of any ten masonry tools (10 marks)
- b) Describe the digestion of grass in the rumen of an adult ruminant (8 marks)
- c) Explain two reasons why raddling is necessary in sheep management. (2 marks)

25. Describe the component parts of a plunge dip for cattle. (20 marks)

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