

FORM 4 END TERM 1 EXAMS AGRIC

Class of KCSE March 2022.

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NAME..... ADM.NO..... CLASS/STREAM.....

SCHOOL.....

SIGNATURE..... DATE

443/1

AGRICULTURE

PAPER 1

END TERM 1

Time: 2 HOURS

INSTRUCTION TO CANDIDATES

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

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

SECTION A (30MKS)

Answer all the questions from this section in the spaces provided.

1. Give **two** characteristics of plantation farming. (1mk)

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2. Name **two** chemical processes of weathering. (1mk)

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3. State **two** advantages of organic farming. (1mk)

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4. Outline **two** effects of soil organisms which benefit plant growth. (1mk)

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5. Give **two** ways in which organic mulch help to conserve water in the soil. (1mk)

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6. Give **two** types of labour records. (1mk)

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7. Outline **four** ways in which land consolidation helps to improve farm management. (2mks)

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8. State **four** importance of raising seedlings in a nursery bed. (2mks)

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9. Give **four** ways of controlling weeds in a field of maize. (2mks)

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10. State **three** reasons for top dressing pasture. (1½mks)

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11. Give **four** reasons for training crops as a field practice . (2mks)

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12. State **three** activities the farmer carries out on a store before storing grains. (1½mks)

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13. Give **four** desirable characteristics of certified seeds. (2mks)

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14. (a) Outline **two** characteristics of nitrogenous fertilizers. (1mk)

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(b) Give the forms in which the following elements are available to plants: (1mk)

(i) Phosphorous:

(ii) Potassium:

15. Give **four** factors that influence the choice of tools and equipment used in Primary cultivation. (2mks)

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16. State **four** factors that contribute to competitive ability of weeds. (2mks)

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17. Define the following terms as used in crop production.

(a) Trellising (1mk)

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(b) Stooking (1mk)

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18. Give **two** advantages of strip grazing (1mk)

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19. State **four** advantages of mixed pasture. (2mks)

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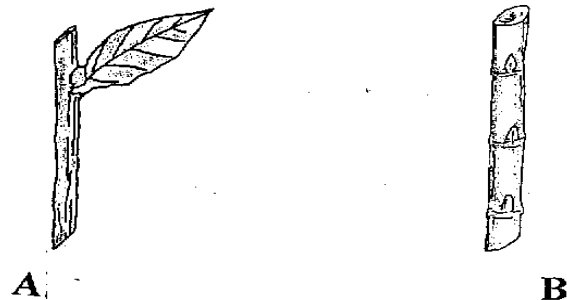
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SECTION B. (20 MARKS)

Answer ALL questions in this section in the spaces provided

20. Study the diagram below and answer the questions that follow. The illustrations represent a method of crop propagation.



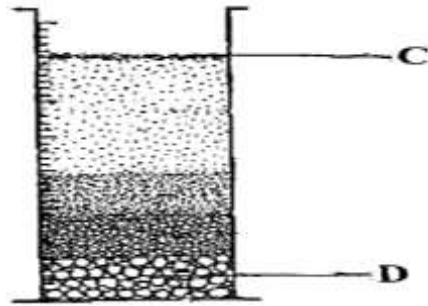
- (a) Name the crops (s) propagated by illustrations: (1mrk)

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- (b) Give **three** factors that promote the rooting of illustration A. (3mrks)

.....

21. The diagram below illustrates an experiment using garden soil. Study it carefully and answer the question that follow.



(a) What was the aim of the experiment?

(1mrk)

.....

(b) Name the parts labeled **C** and **D**.

(2mrks)

C.....

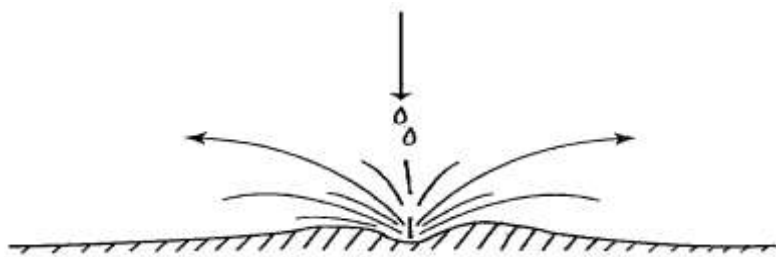
D.....

(c) Name the property of soil being investigated.

(1mrk)

.....

22. The illustration below shows a type of soil erosion. Study it carefully and answer the questions that follow.



- (a) Identify the type of erosion illustrated. (1mrk)

.....

- (b) Give **two** soil factors that influence the rate of soil erosion. (2mrks)

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- (c) Name **one** agent of soil erosion. (1mrk)

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23. The diagram below illustrate a method of irrigation carried out on the farm



- (i) Identify the type of irrigation shown above. (1mk)

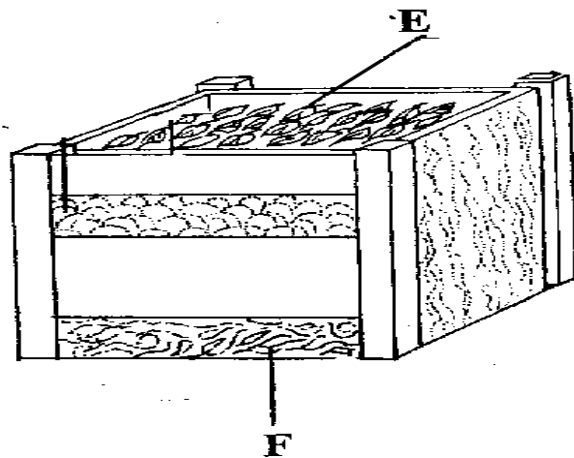
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- (ii) Name **two** advantages of the above method. (2mks)

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24. The diagram below represent a method of manure preparation. Study it carefully and answer the questions that follow.



- (a) Identify the type of manure being prepared. (1mrk)

.....

(b) Name the parts labeled **E** and **F**. (1mrk) .

E.....

F.....

(c) Give **three** disadvantages of manures. (3mrks)

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Answer any TWO question from the section in the spaces provided

25. (a) Give six precautions observed in pruning mature tea

(6 mks)

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(b) Describe the procedure followed when collecting a soil sample from the field for testing in the laboratory

(6 mks)

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(c) Outline four advantages of intercropping crops

(4 mks)

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(d) State four factors considered before selecting a farm enterprise.

(4 mks)

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26. Describe the production of tomatoes under the following sub-headings:

i) Ecological requirements of tomato plants

(5mks)

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ii) Land preparations

(4mks)

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iii) Transplanting

(7mks)

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iv) Disease control

(4mks)

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27. a) State five factors that influence soil productivity.

(5mks)

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b) State five qualities of mother plant used during grafting. (5mks)

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c) Give two types of mulching materials. (2mks)

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d) State four agricultural practices which pollute water. (4mks)

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e) Describe precautions followed when harvesting coffee. (4mks)

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Name.....Index No.....Class.....

Sign:.....

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AGRICULTURE

PAPER 2

END TERM 1

2 Hours

INSTRUCTIONS TO THE CANDIDATES

-Write your name, admission number in the space provided above

-This paper consists of three sections: A, B and C. Answer all questions in sections A and B.

-Answer any two questions from section C

-Answers to all questions must be written in the spaces provided in this booklet.

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1-17	30	
B	18-20	20	
C	21-23	20	
		20	
TOTAL		90	

SECTION A (30 Marks)

Answer all the questions in this section in the space provided.

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.

1. Name the camel breed with two humps. (1 mark)

.....

2. List four disadvantages of animal drawn implements. (2 marks)

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3. Name the vectors for each of the following livestock diseases. (2 marks)

a) East coast fever.....

b) Rift valley fever.....

c) Trypanosomiasis.....

d) Nairobi sheep disease.....

4. Give four factors considered when selecting a site for fish pond. (2 marks)

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5. List four implements that can be connected to the power take off shaft (PTO) of a Tractor. (2 marks)

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6.State two methods of increasing the depth of penetration of a disc harrow. (2 marks)

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7. (a) Name the tools used in (2 marks)

(i) Cutting curves on thin wood.....

(ii)Measuring the inner diameter of a circular object/surface.....

(iii)Cutting thin sheets of metal.....

(iv)Tightening wires during fencing.....

b) State two care and maintenance practices of masonry tools and equipment. (1 mark)

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.....

8. State four pre-disposing factors of mastitis disease in cattle. (2 marks)

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.....

9. Outline four factors which would be considered when culling layers. (2 marks)

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10. Give three reasons for choosing corrugated iron sheets in roofing of farm stores instead of tiles. (3 marks)

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11. What is the purpose of fixing a ring around nostrils of a bull. (1 mark)

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.....

12. State one use of each of the following parts found in a tractor.

(a) Carburetor..... (1 mark)

(b) Spark plug (1 mark)

13. Name the mineral whose deficiency symptom is Grass tetany in livestock. (½ mark)

.....

14. Give three post-milking activities in dairy cattle. (1½ marks)

.....

.....

.....

15. Name two livestock diseases controlled by the same vaccine and name the Vaccine (1½ marks)

(i)

(ii)

16. State the role of the following hormones in livestock production. (2 marks)

Prolactin.....

Oxytocin

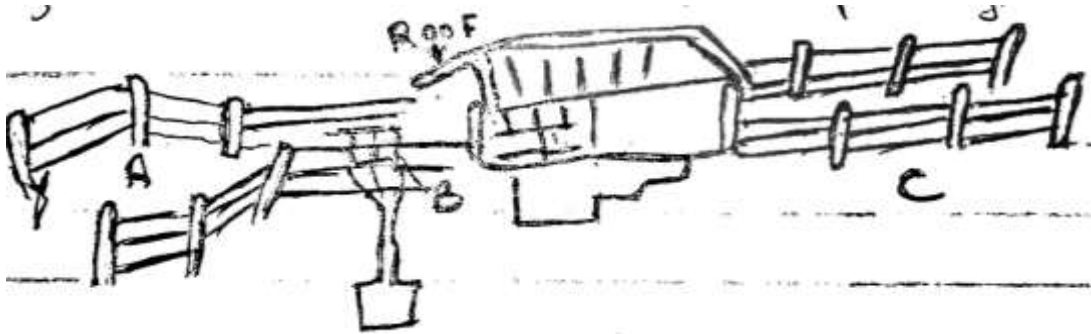
17. Name one parasite of bees. (½ mark)

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SECTION B (20 Marks)

Answer all the questions from this section.

18. Diagram below show a plunge dip.



a) Using a arrow on the diagram show the movement of cattle (½mark)

b) State one use of parts A, B and C (3marks)

A.....

B.....

C.....

c) State two precautions a farmer should take on dip to ensure effective dipping (2marks)

(i).....

.....

ii).....

.....

(d). State two uses of the roof of the dip (2marks)

(i).....

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(ii).....

.....

b) State three disadvantages of a plunge dip (3marks)

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19a) i) Identify the tools below

(1mark)

X

Y

ii) State the use of tools x and y

(2marks)

X

.....
.....

Y

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.....

iii) Explain two maintenance practices carried on tool X

(2marks)

i).....

.....

ii).....

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b) Name the tools used in conjunction of following tools

(2marks)

i. Trocar

.....

ii. Hypodermic needle

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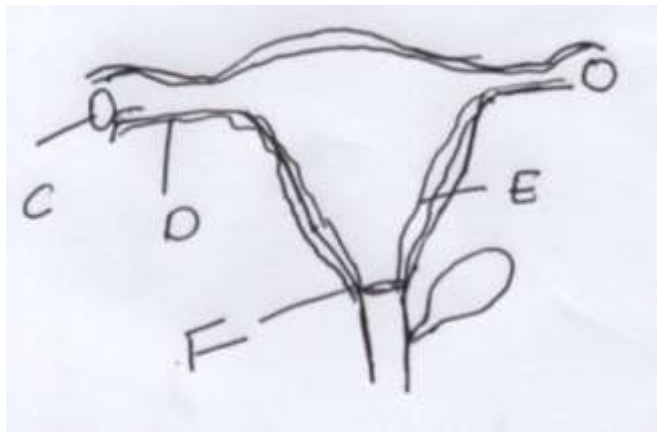
iii. Wood chisel

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iv. Star headed screw

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20a) Diagram below show reproductive system of a female cow



i. Name the part marked

(1mark)

D

.....

F

.....

ii. State the function of parts marked

(1mark)

C

.....

E

.....

b) At what stage should a gilt be mated?

(½mark)

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SECTION C (40 Marks)

Answer any two questions in this section in the spaces provided after each question.

21.(a) Describe five pre-disposing factor of livestock diseases. (5marks)

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(c) Describe six mechanical methods of controlling ticks (6 marks)

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[illegible][illegible]

(5marks)

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(ii) Describe three operational differences between disc plough and mouldboard plough.

(6 marks)

[illegible]

(b) Describe the use of various materials in construction of a Kenya to hive (4 marks)

[illegible]

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(c) Outline the care and maintenance of a tractor water cooling system. (5marks)

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23.(a)(i) State four physiological body processes considered when assessing on animal health.

(4marks)

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(ii) Explain nine factors considered when selecting a breeding stock. (9marks)

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(b) Describe Brucellosis disease in Cattle under the following sub-headings.

(i) the cause of the disease (1mark)

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(ii)Symptoms of the disease

(4marks)

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(iii)Control measures

(2marks)

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