

Name:Index No:

Candidate's Signature:.....

Date:

443/1

AGRICULTURE

Paper 1

MAY 2015

Time: 2 Hours

TIGANIA SOUTH PRE-MOCKS 2015

Kenya Certificate of Secondary Education

AGRICULTURE

Paper 1

MAY 2015

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES:

- This paper contains **three** sections A, B and C
- Answer **ALL** the questions in section A and B
- Answer any **Two** questions from section C
- All answers should be written in the spaces provided.

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAX SCORE	CANDIDATES SCORE
A	1-19	30	
B	20-23	20	
		20	
		20	
TOTAL		90	

This paper consists of 8 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

1. State **two** types of farming systems . (1mrk)

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.....

2. State **two** advantages of concession company as land Tenure system. (1mrk)

.....
.....

3. (a) Define the term pasture. (½mrk)

.....

(b) State **three** main ways in which pastures are classified .

(1½ mrks)

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.....
.....

4. Differentiate between mixed cropping and intercropping. (2mrks)

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.....
.....

5. State **three** types of capital. (1 ½ mrks)

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6. State **four** advantages of overhead irrigation. (2mrks)

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7. State **four** factors influencing mass wasting or solifluction. (2mrks)

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8. State **three** harmful effects of crop diseases. (1 ½ mrks)

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9. State **two** functions of the coffee Board of Kenya. (1mrk)

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10. Give **four** factors that determine the stage at which a crop of maize is harvested. (2mrks)

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11. Name **three** vegetative parts used in the propagation of pineapples. (1 ½mrks)

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.....

12. State **three** symptoms of sulphur deficiency. (1 ½ mrks)

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13. List **four** types of farm records kept by a rabbit farmer. (2mrks)

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14. Name **three** forms that water exists in the soil. (1 ½ mrks)

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15. State **four** methods used in land clearing. (2mrks)

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.....

16. Give **three** methods of controlling Blossom- end rot in a crop of tomatoes. (1 ½ mrks)

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17. State **four** benefits of weeds to farmers (2mrks)

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18. (a) State **three** methods of weed control in a crop of rice (1 ½ mrks)

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(b) Define the term agroforestry. (½mrk)

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.....

SECTION B(20MRKS)

Answer all question in this section

19. The diagram below illustrate s a method of irrigation used on the farm. Study it carefully and answer the questions that follow.

(a) Name the method of irrigation illustrated above. (1mrk)

.....

(b) Give **two** disadvantages of the above method. (2mrks)

.....

.....

(c) Name **two** types of water pumps used to lift water on the farm. (2mrks)

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.....

20. The diagram below illustrate methods of pruning in crop production. Study them carefully and answer the questions that follow.

(a) Name the methods of pruning illustrated in the Figure **A** and **B**. (2mrks)

.....

.....

(b) Sate **two** where the method of pruning shown Figure **A** is recommended. (2mrks)

.....

.....

(c) Give **two** systems of pruning in coffee. (1mrk)

.....

.....

21. The diagram below shows common crop pests on the farm. Study them carefully and answer the questions that follow;

(a) Name the parts represented by letter **D** and **E**. (2mrks)

D.....

E.....

(b) State **two** damages of pest **D** (2mrks)

.....
.....

(c) State **one** control measures of pest **E** (1mrk)

.....

22. The illustration below represent common weeds on the farm . Study them and answer the questions that follow.

(a) Name The weeds represented by letters **K,L,**and**M**. (3mrks)

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.....
.....

(b) State **one** reason why weed **M** is difficult to control (1mrk)

.....

(c) Suggest **one** effective method of controlling weed **M** (1mrk)

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SECTION C940MARKS)

Answer any two questions in this section in the spaces provided

23. State and explain factors influencing soil erosion (20mrks)

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

443/2

CANDIDATES SIGN.....

AGRICULTURE PAPER 2

DATE.....

MAY 2015

2HOURS

TIGANIA SOUTH PRE-MOCKS 2015

INSTRUCTIONS TO CANDIDATES

[a]Write your name and index number in the spaces provided at the top of this page .

[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 sections A and B .Answer two questions in section C

[e]Answers should be written in the spaces provided on the question paper.

FOR EXAMINERS USE ONLY .

SECTION	QUESTIONS	MAX.SCORE	CANDIDATES SCORE
A	1---24	30	
B	25—29	20	
C	30 ,31 ,32	20	
	30 ,31 ,32	20	
TOTAL SCORE		90	

SECTION A [30 MARKS]

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

1.Name a breed of goats that has long hair .[0.5mks.]

.....

2.Give three factors that should be considered when sitting a bee-hive in the farm[1.5marks]

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.....
.....

3.State four management practices that would ensure maximum harvest of fish in a fish pond [2marks]

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4.Give two reasons why walls of dairy sheds should be white –washed instead of painted with water or oil paint .[1mark]

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.....

5.What is the intermediate host for liver fluke .[0.5mks.]

.....

6.What is the duration of estrus cycle in a cow ? [0.5mks.]

.....

7.If a dairy cow was noticed to be showing first signs of heat at 6.00am.What time should she be inseminated ? [1mark]

.....

8Give four factors that determine the amount of water required by an animal .[2marks]

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.....
.....
.....

9.Name three holding tools and equipment .[1.5marks]

.....
.....

10.Give three functions of a combination squire . [1.5marks]

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.....
.....

11.State three functions of the differential in a tractors power transmission.[1.5mks]

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.....

12.State three factors that contribute to a high working efficiency of a disc harrow.[1.5marks]

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.....
.....

13.List three products obtained from dromedary camel.[1.5marks]

.....

14.If the records showed that a rabbit doe was served on 27th September2014 what date did she give birth/kindle? [0.5marks]

.....

15.Give two signs that would show that a rabbit doe is about to parturate .[1mk.]

.....
.....

16. Under what conditions would it be necessary to use a file to smoothen a piece of wood instead of using a smoothing plane ?[0.5marks]

.....
.....

17. What is the use of a plumb-bob ?[0.5marks]

.....

18. State four characteristics of a corriedale sheep breed.[2marks]

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.....
.....

19. State any two disadvantages that may arise from inbreeding in livestock production .[1mark]

.....
.....

20. Name four cattle diseases caused by bacteria .[2marks]

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21. Name any two methods recommended for identifying goats .[1mark]

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22. State three field conditions under which a disc plough should be used instead of a mould board plough .[1.5marks]

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23. Give three symptoms of milk fever in dairy cattle .[1.5marks]

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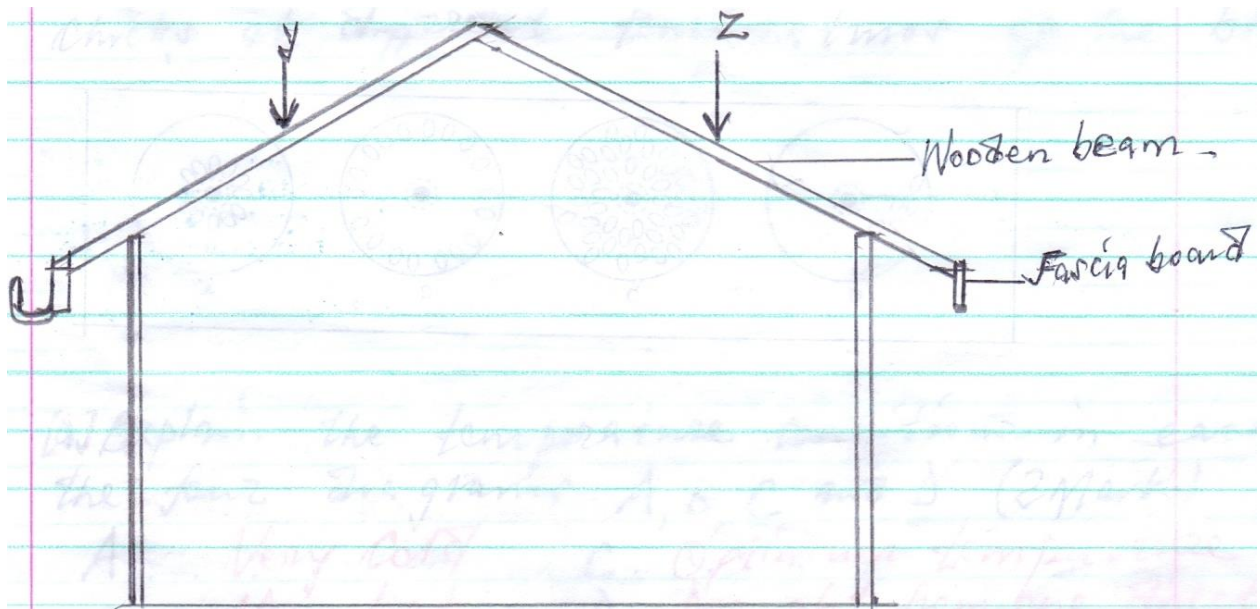
24. Give four reasons for steaming –up dairy animals.[2marks]

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SECTION B [20MARKS]

Answer all questions in this section in the spaces provided .

25. The drawing below shows the cross-section of a house under construction. Study it carefully and answer questions that follow .



[a] Assuming that the wooden beams are strong enough to hold the roof load. What is the most likely thing to happen when the roof load exerted presses at point Y and Z. [1mark]

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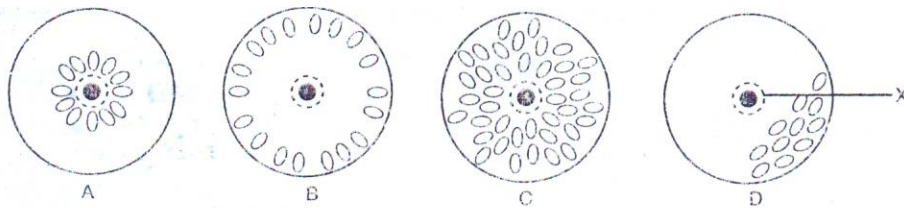
[b] On the diagram provided draw and label two constructional features you would add to this structure in order to make it more efficient. [2marks]

.....

[c] State two importance of the fascia board in the farm building. [2marks]

.....
.....

26. The following illustration show the behavior of chicks at different temperatures of the brooder.



[a] Explain the temperature conditions in each of the four diagrams A ,B ,C ,and D.[2marks]

A.....B.....

C.....D.....

[b] Give one method of assessing temperature in the brooder.[1mark]

.....

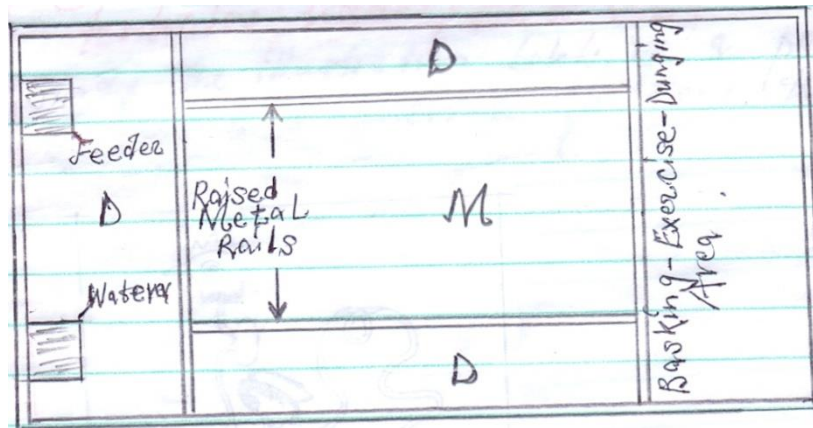
[c] Name two other behavioral observations on chicks when temperature is very high in the brooder.[2marks]

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27.The illustration below shows a pig farrowing pen .Study it and answer questions that follow.



[a] What is the use of the raised metal rails.[1mark]

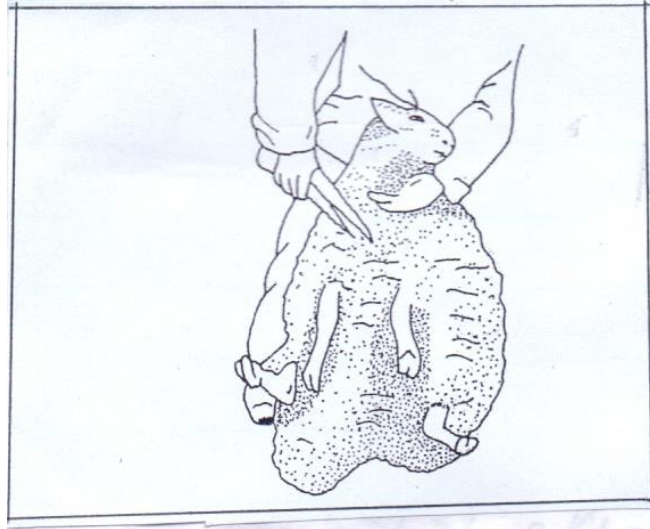
.....

[b] Give two uses for the parts labeled D[2marks]

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28.Below is an illustration representing a practice carried out in sheep. Study it and answer questions that follow.



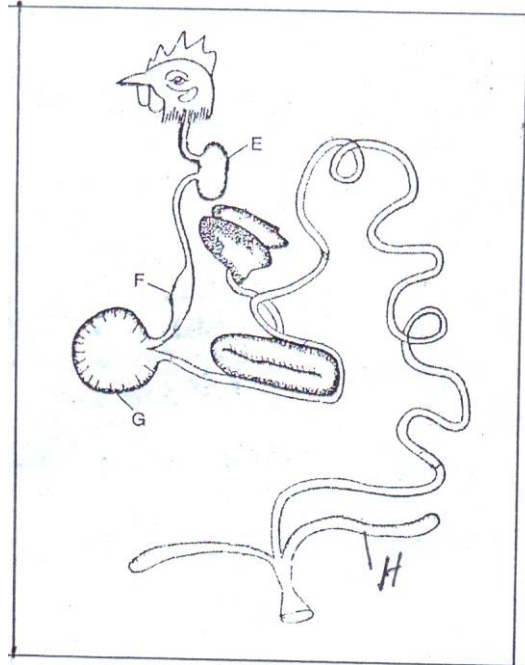
[a] Identify the practice illustrated above. [1 mark]

.....

[b] State three precautions taken when carrying out the above practice. [3 marks]

.....
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.....

29. Study the illustration below of a poultry digestive system and answer questions that follow.



[a] Give two functions of part E. [2marks]

.....
.....

[b] State one function of part H. [1mark]

.....

SECTION C [40MARKS]

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

30.[a]Describe ten factors that are considered during the selection of a breeding stock.[10marks]

[b]Describe five effects of parasites on livestock.[5marks]

[c]Describe the mechanical control measures of ticks.[5marks]

31.[a]Outline five reasons why bees swarm away.[5marks]

[b]Discuss the preparations and practices that should be carried out on a pregnant sow 10 days before she far rows.[5marks]

[c] Describe Gumboro disease under the following sub headings.

Causal organism [1mark]

Livestock attacked [1mark]

Symptoms of the disease [6marks]

Control measures [2marks]

32.[a]Explain five advantages of animal draught power.[5marks]

[b]Discuss the importance of lubrication system in a tractor.[4marks]

[c]Explain six factors considered when selecting construction materials for farm structures .[6marks]

[d]Give five qualities of a good calf pen.[5marks]