NAME	INDEX NO
	CANDIDATES SIGN
	0.475

443/1 AGRICULTURE PAPER 1 MARCH/APRIL 2015 2 HOURS

## **MOKASA JOINT EVALUATION**

#### **AGRICULTURE PAPER I**

Paper I Theory (2 Hours)

#### **INSTRUCTIONS TO CANDIDATES**

- [a] Write your name and index number in the spaces provided above.
- [b]Sign and write the date of 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.
- [e]Answer any two questions in section C.
- [f]All answers should be written in the spaces provided.
- [g]Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- [h]Candidates should answer the questions in English.

For Examiners

ECTION QU	ESTIONS	MAX.SCORE	CAND.SCORE
1	18	30	
19-	23	20	
		20	
		20	
ТО	TAL SCORE	90	
то	TAL SCORE	90	

#### **SECTION A: (30 MARKS)**

1.	State four limitations of pastoral farming	(2 marks)
2.	Give four benefits of timely planting of crops	(2 marks)
3.	State <b>four</b> factors of soil which influence productivity of crops	(2 marks)
4.	Give four conditions of land that would make it necessary to carryout reclamation	on practices (2 marks)
5.	State <b>two</b> factors that influence the quantity of water used in the farm	(1 mark)
6.	State four reasons for keeping health records	(2 marks)
7.	Give <b>two</b> types of inventory records	(1 mark)

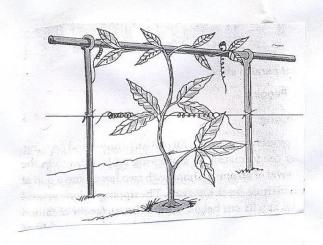
	4	
8.	Name <b>two</b> situations in which opportunity cost does not exists	(1 mark)
9.	State <b>three</b> ways in which flooded water is important in the growing of paddy rice	e(1½ mks)
10.	State four ways of maintaining a healthy and high yield grass pasture after planting	ng (2 marks)
11.	Give three factors considered while determining the size of a silo	(1½ mks)
12.	Give two ways in which overheating can be avoided during silage making	(1 mark)
13.	State <b>four</b> factors that will determine the depth of ploughing a maize field using t drawn implements	ractor (2 marks)
14.	Give four ways in which cover crops help in soil and water conservation	(2 marks)

15.	List five biotic factors that affect livestock negatively	(2½ mks)
16.	State three characteristics of soil that are influenced by its texture	(1½ mks)
17.	Distinguish between contact and systemic herbicide	(2 marks)
18.	Give two reasons why phosphatic are applied at planting time	(1 mark)

#### SECTION B: (20 MARKS)

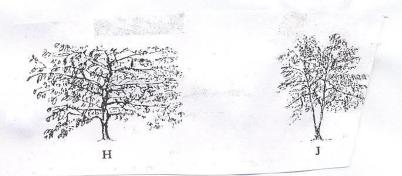
Answer ALL the questions in this section in the spaces provided.

The diagram below shows a practice in crop production. 19.



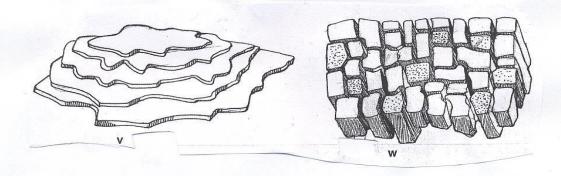
	Give the identity of the field management practice illustrated above	(½ mark
ii)	Give <b>two</b> reasons for carrying out the above field management practice	(2 mark
b)	A plot measuring 4m x 3m was prepared for planting cabbages at a spacin 60cm. Calculate the plant population in the plot Show your working.	ng of 60cn (1½ mks
a)	Identify the illustration P and Q which are materials used in propagation o	of sugarca
	P	
P	PQ	
P Q	P	
	Giving reasons which of the above is more suitable as a planting material cane?	in sugar (2 mark
Q		in sugar (2 marl

21. The diagrams below labelled H and J are illustrations of coffee plants established using two different pruning systems. Examine them closely and answer the questions that follow.



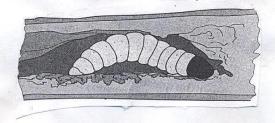
a) l	lame the pruning systems illustrated by diagrams H and J (I mark)
Н	
J	
b)	Give <b>two</b> advantages of pruning system illustrated by diagram H over that one illustrated by diagram J (2 marks)
	Name <b>two</b> types of pruning that should be carried out after the coffee bush has bee
	established using the system J (2 marks)

22. The diagrams V and W illustrate some soil structures. Study the diagrams and answer the questions that follow.



a)	Identify the <b>two</b> structures labelled V and W	(1 mark)
٧		•••••
W		
b)	Name the types of soils from which structures labelled V and W can be fou	nd
		(1 mark)
V		•••••
W		
c)	State two ways through which structure V may influence crop production	(2 marks)
••••		

23. The diagram below shows a maize stalk infested by a certain pest. Study it and answer the questions that follow.



a)	Identify the pest	(½ mark)
b)	Give <b>two</b> types of damages caused to crops by the above pest	(2 marks)
 c)	Other than maize name one other crop attacked by the pest	(½ mark)

## SECTION C: (40 MARKS)

### Answer any TWO questions from this section in the spaces provided.

24. a	a)	Describe the field production of tomatoes under the following subheadings		
(	(i)	Field management practices	(7 marks)	
(	(ii)	Grading of tomato fruits	(3 marks)	
k	b)	Explain five factors considered when designing a crop rotation program	me	
			(10 marks)	
25. a	a)	Explain ten factors that influence soil erosion	(10 marks)	
ŀ	b)	Describe six benefits of land consolidation	(6 marks)	
C	c)	Explain four main objectives of establishing the early African settlement	schemes	
			(4 marks)	
26. a	a)i)	Explain the difference between stocking rate and carrying capacity	(2 marks)	
i	ii)	Discuss the advantages of rotational grazing system	(5 marks)	
i	iii)	Describe the precautions when harvesting coffee	(3 marks)	
k	b)i)	Explain harmful effects of weeds in the main field	(5 marks)	
i	ii)	Discuss the cultural methods of controlling crop diseases	(5 marks)	

NAME	INDEX NO
443/2	CANDIDATES SIGN
AGRICULTURE PAPER 2	DATE
MARCH/APRIL 2015	
2HOURS	
MOKASA K.C.S.E. AGRICULTURE PAPER 2	
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
Α	124	30	
В	25—29	20	
С	30 ,31 ,32	20	
	30 ,31 ,32	20	
TOTAL		90	
SCORE			

#### 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]
3.State four management practices that would ensure maximum harvest of fish in a fish pond [2marks]
4.Give two reasons why walls of dairy sheds should be white –washed instead of painted with water or oil paint .[1mark]
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]
9.Name three holding tools and equipment .[1.5marks]
10. Give three functions of a combination squire . [1.5 marks]
11.State three functions of the differential in a tractors power transmission.[1.5mks]
12.State three factors that contribute to a high working efficiency of a disc harrow.[1.5marks]

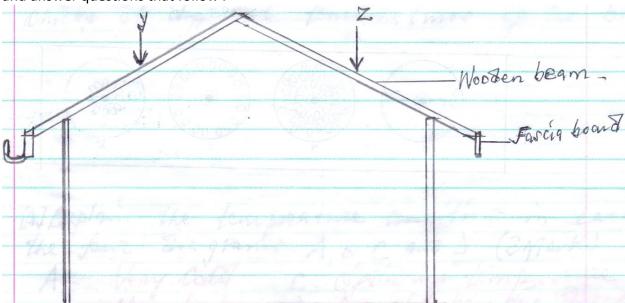
13.List three products obtained from dromedary camel.[1.5marks]
14.If the records showed that a rabbit doe was served on 27 <sup>th</sup> September2014 what date did she give birth/kindle? [0.5marks]
15.Give two signs that would show that a rabbit doe is about to parturate .[1mk.]
16.Under what conditions 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]
19.State any two disadvantages that may arise from inbreeding in livestock production .[1mark]
20.Name four cattle diseases caused by bacteria .[2marks]
21.Name any two methods recommended for identifying goats .[1mark]
22.State three field conditions under which a disc plough should be used instead of a mould board plough .[1.5marks]
23.Give three symptoms of milk fever in dairy cattle .[1.5marks]
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 .

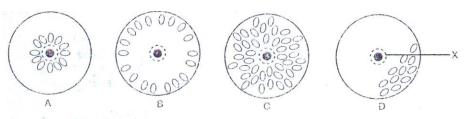


[a] Assuming that the wooden beams are strong enough to hold the roof load . What is the most likely thing to happen when the roof load exerted presses at point Y and Z . [1mark]

[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]

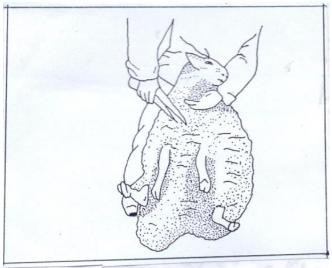
[c]State two importance of the fascia board in the farm building.[2marks]

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



[a]Explain the temperature A C	B			
[b]Give one method of asse		ture in the broc	oder.[1mark]	
[c]Name two other behavious brooder.[2marks]	oral observatio	ns on chicks wh	en temperature is	s very high in the
27.The illustration below sh	nows a pig far i	rowing pen .Stu	dy it and answer o	questions that follow
Feeder	1	D	se-Dungi	
D	Raised Netal Rails	M	Exerci	
Watera		_	Sas king-	
[a]What is the use of the ra	ised metal rail	s.[1mark]	N N	
[b]Give two uses for the pa	rts labeled D[2	2marks]		••••

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.[1mark]

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[b]State three precaution	ons taken when carrying out the above practice.[3marks]
29.Study the illustration	below of a poultry digestive system and answer questions that follow.
	E G H
[a]Give two functions o	f part E.[2marks]
[b]State one function o	part H.[1mark]
SECTION C [40MARKS] Answer any two questic	ons from this section in the spaces provided after each question. ors that are considered during the selection of a breeding

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[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]

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