NAME	INDEX NUMBER

SCHOOL..... CANDIDATE'S SIGNATURE.....

**DATE**.....

443/2 AGRICULTURE PAPER 2 TIME: 2 HOURS JULY/AUGUST 2018

## Kenya Certificate of Secondary Education AGRICULTURE PAPER 2 2 HOURS

## **INSTRUCTIONS TO CANDIDATES:**

(a) Write your name and index number in the spaces provided.

(b) Sign and write the date of examination in the spaces provided.

(c) This paper consists of three sections: A, B and C.

(d) Answer ALL the questions in Section A and B in the space provided.

(e) Answer any two questions in section C in the space provided.

(f) Candidates should check the question paper to ascertain that all the pages are printed as indicated

and that no questions are missing.

g) The paper has 13printed pages

## For Examiners Use Only

SECTION	QUESTION	MAXIMUM	CANDIDATE'S
		SCORE	SCORE
Α	1 - 17	30	
В	18 - 21	20	
С	22	20	
C	22	20	
	23	20	
		• •	
	24	20	
ТОТА	L SCORE	90	
IOIA	LSCORE	90	

## SECTION A 30 MARKS - ANSWER ALL THE QUESTIONS

1.)	State <b>four</b> factors that affect the distribution of livestock in Kenya.	(2 marks)
2.)	<ul><li>Give examples of each of the following types of livestock animals.</li><li>a) Dairy cattle</li></ul>	(1/2 mark)
	b) Dual purpose sheep	(1/2 mark)
	c)Hair goat.	(1/2 mark)
	d)Dual purpose cattle	(1/2 mark)
3.)	Name <b>four</b> livestock tools that are used together in complimentary manner.	(2 marks)
4.)	State the function of a spoke shave.	(1 mark)

5.)	State <b>four</b> reasons for maintenance practices carried out on masonry tools.	(2 marks)
6.)	Outline <b>four</b> reasons for keeping livestock healthy.	(2 marks)
7)State	<b>four</b> harmful effects of parasites	(2 marks)
8)Name	<b>three</b> methods of selection in livestock production.	(1 ½ mark)

9)State <b>two</b> signs of parturition in pigs.	(2 marks)
10.) <b>Differentiate</b> between <b>steaming</b> up and <b>flushing</b> .	(1 mark)
11)State <b>four disadvantages</b> of using a spray race in controlling parasites in livestock.	(2mks)
12)Outline four structural requirements of a calf pen.	(2 marks)
13)Differentiate between cropping and harvesting as used in aquaculture.	(1 marks)

14)List <b>four factors</b> that influence the choice of poultry rearing system.	(2 marks)
15) <b>Outline four</b> rules observed when milking.	(2 marks)
16)List four importance of lubrication system in a tractor.	(2 marks)
17) <b>Outline three advantages</b> of setting up a biogas unit in a dairy unit.	(1 ½ marks)

SECTION B-20marks

18)Use the Pearson square method to formulate Duck mash 28% DCP using maize DCP 11% and fishmeal 35% DCP. Show all your working (5 marks)

19)The diagram below represents the **tractor power transmission system**. Study it carefully and answer the questions that follow



- a) Name three aspects that ensure maximum traction in a tractor (1 1/2 marks)
- b) Name parts
   (1 ½ marks)

   C.....
   D-....

   G-....
   G-....

   C)State two functions of part D
   (2 marks)

   .....
   .....

20)The diagrams below shows various equipment used in livestock health







a) <b>Name</b> equipment	(2 marks)
A	
В	
C	
D	
c) State the function of D.	(1 mark)
c)Give the <b>functional difference</b> between A and B	(2 Marks)

21)The diagram below represents an **important farm structure**. Study it and the answer. Study it and answer the questions that follow.



(i)Identify the farm structure (1mk)

(ii)Label the parts.	(2mks)
A	
В	
C	
D	
(iii)State two maintenance practices carried out in the structure above.	(2mks)

SECTION C-Answer any 2 questions only

(10 marks)
(10 marks)
•

23)a) <b>Describe five</b> structural requirements of modern produce store.	(10 marks)
	••••••
b)Describe the sequence of events that take place in a 4-stroke petrol engine in one cycle	e starting with
induction, compression, power and exhaust stroke.	(10 marks)

24 a)Give four reasons for inbreeding in livestock	(4 marks)
b)Outline four characteristics of eggs for incubation	(4 marks)

(i)Two towels per cow	(1mks)
(ii)Filter pads	(1mks)
(iii)Milking jelly	(1mks)
(iv)Strip cup	(1mks)
d) <b>Describe</b> bloat under the following subheadings	
(i)Animals affected.	(2 marks)
(ii)Causal agent.	(2 marks)

c)State the use of each of the following milky materials and equipment.

(iii)Symptoms.	(2 marks)
(iv)Control and treatment.	(2 marks)