THE KENYA NATIONAL EXAMINATIONS COUNCIL Kenya Certificate of Secondary Education

443/2

— AGRICULTURE — (THEORY)

Paper 2

Apr. 2021 - 2 hours

Name	Index Number
Candidate's Signature	Date

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) This paper consists of 16 printed pages.
- (h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- (i) Candidates should answer the questions in English.

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
Α	1–17	30	
В	18–21	20	
C		20	
		20	
	Total Score	90	





SECTION A (30 marks)

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

1.	State two functions of walking area in a zero grazing unit.	(1 mark)
2.	Give four characteristics of succulent roughages.	(2 marks)
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3.	State four symptoms of contagious abortion.	(2 marks)
4.	State four factors considered when selecting eggs for marketing.	(2 marks)

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5.	State four maintenance practices that should be carried out on a hoof cutter.	(2 marks)
6.	State four limitations of a tractor as a source of power on the farm.	(2 marks)
7.	Name four beef cattle breeds.	(2 marks)
8.	State the origin of each of the following dairy cattle breeds:	(1 mark)
	(a) Friesian	
	(b) Ayrshire	
9.	State four control measures for foot rot.	(2 marks)

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10.	State four signs of heat in pigs.	(2 marks)
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11.	State two categories of livestock parasites.	(1 mark)
12.	Name two types of calf pens used in cattle production.	(1 mark)
13.	State four ways in which identification in livestock production is important.	(2 marks)
57(0)		•••••
		••••••
14.	State four preventive measures for livestock diseases.	(2 marks)



15.	State four reasons for castration in livestock production.	(2 marks)
16.	Name four causes of livestock diseases.	(2 marks)
17.	State four methods of fish preservation.	(2 marks)



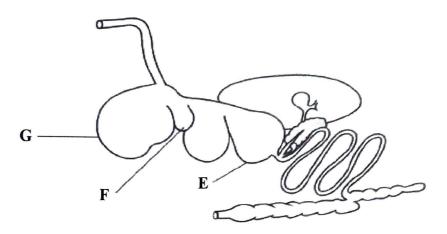
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SECTION B (20 marks)

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

18. Below is an illustration of the digestive system of livestock.

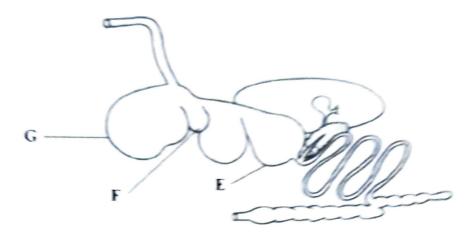


(a)	Name	e one livestock with the digestive system illustrated above.	(1 mari
(b)	Name	e the part labelled:	
	E		. (1 mark
	F		. (1 mark
(c)		two functions of the part labelled part G.	(2 marks)

SECTION B (20 marks)

Answer all the questions in this section in the spaces provided

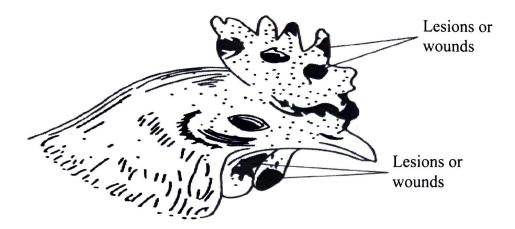
Below is an illustration of the digestive system of livestock.



Name the part labelled: E F	
F	Tier
	That
State two functions of the part labelled part G .	

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19. Below is an illustration of a bird infected with a poultry disease.



(a)	(1)	Identify the disease.	(1 mark)
	(ii)	Name another body part also affected by the lesions or wounds.	(1 mark)
(b)	State	two predisposing factors of the disease.	(2 marks)
(c)	State	one control measure of the disease.	(1 mark)
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20. Below is an illustration of a practice carried out in poultry.



Before practice

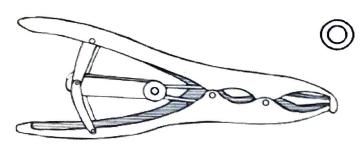
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(a)	(i)	Identify the practice.	(1 mark)
	(ii)	Give one reason why the use of a hot iron is recommended for the prillustrated.	
(b)	Name	e two poultry vices controlled by the practice illustrated.	(2 marks)
(c)	State	one feeding practice that helps to control these poultry vices.	(1 mark)





21. Below is a diagram of a tool used in livestock rearing.



(a)	Identify the tool.	(1 mark)
(b)	State two uses of the tool.	(2 marks)
(c)	Give two reasons why farmers prefer using the tool.	(2 marks)



SECTION C (40 marks)

Answer any two questions from this section in the spaces provided after question 24.

22.	(a)	Describe seven requirements of an ideal calf pen.	(7 marks)
	(b)	State the disadvantages of natural mating in livestock breeding.	(8 marks)
	(c)	Explain five predisposing factors of mastitis disease in dairy farming.	(5 marks)
23.	(a)	Explain nine qualities of an ideal brooder for day old chicks.	(9 marks)
	(b)	Describe the working mechanism of a four-stroke cycle engine.	(11 marks)
24.	(a)	Explain five control measures for tapeworms.	(5 marks)
	(b)	Give the functions of ten equipment used in clean milk production.	(10 marks)
	(c)	Describe the life cycle of a one-host tick.	(5 marks)
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