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Name ..... Index Number .....

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443/2  
 AGRICULTURE  
 Paper 2  
 (THEORY)  
 Oct./Nov. 2014  
 2 hours

Candidate's Signature .....

Date .....



THE KENYA NATIONAL EXAMINATIONS COUNCIL  
 Kenya Certificate of Secondary Education  
 AGRICULTURE  
 Paper 2  
 (THEORY)  
 2 hours

**Instructions to candidates**

- Write your name and index number in the spaces provided at the top of this page.
- Sign and write the date of the examination in the spaces provided above.
- This paper consists of **three** sections: **A, B and C.**
- Answer **all** the questions in sections **A and B.**
- Answer any **two** questions in section **C.**
- All answers should be written in the spaces provided on the question paper.
- This paper consists of 16 printed pages.**
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**
- Candidates should answer the questions in English.**

**For Examiner's Use Only**

Section	Question	Maximum Score	Candidate's Score
A	1 – 14	30	
B	15 – 18	20	
C		20	
		20	
Total Score		90	



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Turn over

**SECTION A (30 marks)**

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

**1** Name the **two** products obtained from dual purpose sheep. (1 mark)

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**2** Give **two** practices that should be done to a newly born calf with difficult breathing. (1 mark)

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**3** (a) What is meant by the term two host tick? (1 mark)

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.....

(b) Give **two** examples of two host ticks in cattle. (1 mark)

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.....

**4** State **four** disadvantages of using plunge dips in tick control. (2 marks)

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.....

5 (a) State the functions of the following farm tools and equipment: (1/2 mark)

(i) pipe cutter;

.....  
.....

(ii) wire strainer. (1/2 mark)

.....  
.....

(b) Name **four** tools that can be used to assemble a jembe. (2 marks)

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

(c) Name the complementary tool for each of the tools named below:

(i) trochar; (1/2 mark)

.....

(ii) hand drill. (1/2 mark)

.....

6 Name **two** livestock diseases controlled through embryo transplant. (1 mark)

.....  
.....

7 State **three** factors that limit external parasite control in Kenya. (1 1/2 marks)

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.....  
.....

8 State **four** characteristics of the Duroc Jersey pig. (2 marks)

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.....

9 Name **four** categories of poultry feeds according to the stages of growth of birds. (2 marks)

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

10 State **four** ways in which a vaccine can be administered to livestock. (2 marks)

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

11 (a) Name **three** protozoan diseases of cattle. (1½ marks)

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

(b) State **four** symptoms of rinderpest in cattle. (2 marks)

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.....

12 State **four** maintenance practices carried out on a spray race. (2 marks)

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13 (a) Give **four** reasons for proper feeding in livestock rearing. (2 marks)

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(b) State **four** good hygiene practices in livestock feeding. (2 marks)

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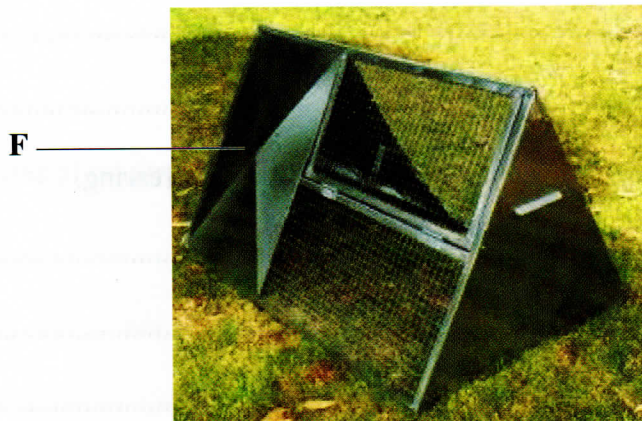
14 State **four** reasons why kids should be weighed immediately after birth. (2 marks)

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**SECTION B (20 marks)**

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

**15** The picture below shows a poultry farm structure.



(a) Identify the farm structure. (1 mark)

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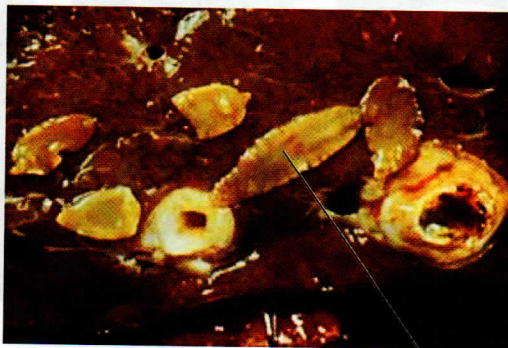
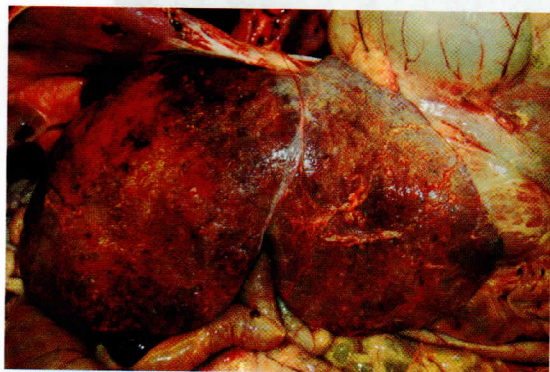
(b) Apart from metal, name **two** materials that can be used for the part labelled **F**. (2 marks)

.....  
.....

(c) State **three** disadvantages of using the farm structure illustrated above in poultry rearing. (3 marks)

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

16 The picture below illustrates a livestock organ infested by a parasite labelled E.



E

(a) Name the disease the livestock is suffering from. (1 mark)

.....

(b) Identify the parasite labelled E. (1 mark)

.....

(c) State **two** control measures for the parasite. (2 marks)

.....

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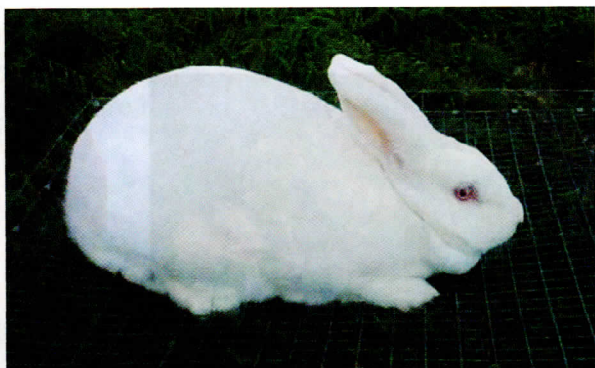
(d) State **two** signs of infestation shown in the picture above. (2 marks)

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.....



17 The pictures below illustrate two rabbit breeds.



A



B

(a) Name the rabbit breeds shown above.

A ..... (1 mark)

B ..... (1 mark)

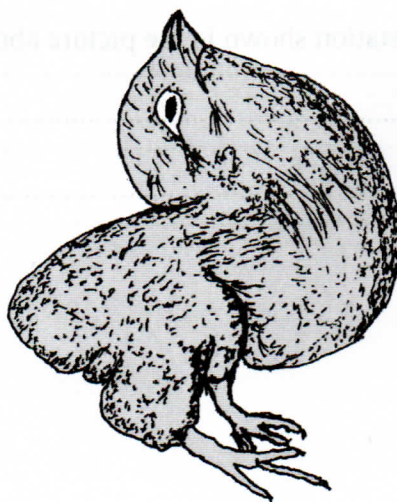
(b) Name the major feeding practice missing from the photograph labelled B. (1 mark)

.....

(c) Give **one** advantage of housing the rabbits on the floor illustrated above. (1 mark)

.....

18 The following is an illustration of a chick suffering from malnutrition.





(a) Identify the mineral deficiency shown by the chick. (1 mark)

.....

(b) Apart from the symptom illustrated above, give **three** other symptoms of mineral deficiency in poultry. (3 marks)

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.....

**SECTION C (40 marks)**

*Answer any two questions from this section in the spaces provided after question 21.*

19 (a) Describe upgrading as a method of improving indigenous cattle for milk production. (8 marks)

(b) Describe the causes of low egg production in layers. (12 marks)

20 (a) Describe how the late weaning programme is conducted in a dairy calf. (12 marks)

(b) Describe how a newly constructed pond is prepared and stocked with fingerlings. (8 marks)

21 (a) (i) Describe short-term tractor servicing. (10 marks)

(ii) Explain the maintenance practices that should be carried out on an ox-cart. (5 marks)

(b) State **five** indicators that can be observed on a goat to confirm sickness. (5 marks)







