**NAME: …………………………………………. INDEX NO: ……………………………….**

 **CANDIDATE’S SIGNATURE: …………………………………**

 **DATE : ……………………………………………………………**

**443/2**

**AGRICULTURE**

**PAPER 2**

**JULY / AUGUST 2014**

**FORM 3**

**TIME: 2 HOURS**

**INSTRUCTIONS TO CANDIDATES:**

1. *Write your name and Index number in the spaces provided above.*
2. *Sign and write the date of examination in the spaces provided above.*
3. *This paper consists of THREE sections A, B and C.*
4. *Answer ALL questions in Section A , B and C*

**SECTION A (30 MARKS)**

***Answer ALL Questions in the Spaces Provided***

1. (a) What is a notifiable disease? (1mk) ………………………………………………………………………………………………………………………………………………………………………………………………

(b) Name **two** notifiable diseases of cattle. (1mk)

………………………………………………………………………………………………

1. List any **four** farm tools and equipment that are complementary in use.(2mks)

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1. Give **two** characteristics that make indigenous cattle better suited to marginal areas than exotic cattle. (2mks)

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1. Give **four** similarities between the importance of good creep feed and colostrum. (4mks)

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1. Give **two** examples of light breeds of poultry. (1mk)

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1. A farmer intends to prepare 600kg of feed containing 20% DCP for chicks using feedstuffs which contains 18% DCP and N which contains 40% DCP, using a pearson’s square method, calculate how much of Q and N will be needed.(5mks)

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1. Differentiate between pen mating and flock mating in poultry. (2mks)

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1. State **four** signs of heat in pigs. (2mks)

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1. Give **two** reasons why teaser rams are introduced to a flock of Ewes some weeks before tupping. (2mks)

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1. Name **two** livestock diseases controlled through artificial inseminatiton. (1mk)

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1. What characteristics of gizzard of a cock enable it to digest food? (1mk)

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1. Give **two** reasons for seasoning timber before its used for construction.(2mks)

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1. Give **two** uses of droppers in a barbed wire fence. (1mk)

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1. State **two** factors which determine the amount of feeds given to an animal. (1mk)

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1. State **two** factors that lower quality of concrete. (1mk)

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1. Give **two** maintenance practices of a tractor battery. (1mk)

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**SECTION B :( 20MARKS)**

**Answer all questions from this section**

1. Study the illustration of a farm structure below and answer the questions that follow:



* 1. Identify the parts labeled: (2mks)

J…………………………………………………………………………………………

K…………………………………………………………………………………………

L…………………………………………………………………………………………

N…………………………………………………………………………………………

* 1. State **two** uses of part labeled L. (1mk)

…………………………………………………………………………………………

…………………………………………………………………………………………**.**

1. Below is an illustration of a bee keeping structure.

P

Q

R

S

1. Name the parts labeled P, Q, R and S. (2mks)

P: ……………………………………………………………………

 Q: …………………………………………………………………………………

R: ……………………………………………………………

S: …………………………………………………………………………………………..

1. Give **two** methods used in stocking hives. (2mks)

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1. Name **four** materials used for feeding bees. (2mks)

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1. Study the diagram of the tick below and answer the questions that follow.
	1. (i) Identify the tick. (1mk)

……………………………………………………………………………………………….

(ii) Name **one** cattle disease transmitted by the above species of tick. (1mk)

……………………………………………………………………………………………….

* 1. Name **three** mechanical methods of controlling ticks. (3mks)

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1. The diagram below shows a rearing practice in livestock production.



1. Name the method of routine practice shown in the diagram above. (1mk)

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1. Describe the procedure used to carry out the routine practice identified in (a) above. (3mks)

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21. Study the diagram of the digestive system of a farm animal illustrated below and answer the Questions that follow.



 (a) Name the parts labeled P, Q, R and S (2mks)

 (b) State the function of the part labeled R (1mk)

 (c) Give one reasons why livestock with the above parts are able to digest cellulose food

 material (1 mk)

 (d) In which of parts labeled P, Q, R and S would a nylon paper be found if fed on by an

 animal with the above digestive system? ( 1 mk)

22. Diagrams A and B below illustrates garden tools



(a) (i) Identify the tools labeled A and B (2mks)

(ii) Name the category of field crops where each tool labeled A and B is the most appropriate (1mk)

(b) State one disadvantage of B over A. (1mk)

**SECTION C ( 40 MARKS )**

***Answer ALL THE questions in this section.***

23. (a) Discuss bee management under the following sub-headings.

 (i) Location of bee hive. ( 5 marks )

 (ii) Diseases of bees. ( 2 marks )

 (iii) Factors that determine the quality of honey. ( 3 marks )

b. Explain five signs of ill-health in livestock. (10 marks

24. (a) Describe the biotic factors that affect livestock production. (8 marks )

(b ) Discuss four advantages of farm mechanization. ( 8 marks

(c ) State four factors that influence milk let-down in cows. (4 marks)

25. Describe the management practices in fish farming. 20mks