

Name:

Index No.

Candidate's Signature:

Date:

443/2

AGRICULTURE

PAPER 2

JULY / AUGUST 2013

2HOURS

KIKUYU DISTRICT INTERSCHOOLS EVALUATION
KENYA CERTIFICATE OF SECONDARY EDUCATION

443/2

AGRICULTURE

PAPER 2

JULY / AUGUST 2013

2HOURS

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above
- Sign and write the date of examination in the spaces provided above.
- This paper consist of THREE sections A, B and C
- Answer ALL the questions in section A, B and any two questions from section C
- All answers must be written in the spaces provided.

FOR EXAMINER'S USE ONLY.

Section	Question	Maximum score	Candidate's score
A	1- 21	30	
B	22 - 25	20	
C		20	
		20	
	Total score		

*This paper consists of 12 printed pages.
Candidates should check the questions to ensure that all pages are printed as
indicated and no question(s) are missing*

SECTION A: (30 MARKS)

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

1. Identify the primary products of the following livestock. (1mk)

a) Bees

b) Donkeys

2. Name a tool used for tightening barbed wire while fencing. (1mk)

3. Name **one** hair goat (1mk)

4. State **two** factors that determine the amount of water required by an animal. (1mk)

5. Identify **one** accessory gland in the male reproductive system of cattle and give its functions. (2mks)

6. Name **four** physiological body functions that may indicate the health of an animal. (2mks)

7. Give **two** examples of zoonotic diseases in livestock. (1mk)

8. Identify **two** methods used in selection of livestock other than mass selection. (1mk)

9. State **one** use of each of the following farm tools.

a) Stock and die;

(1mk)

b) Garden trowel;

(1mk)

10. Differentiate between prepotency and prolificacy in livestock production. (2mks)

11. State **two** harmful effects of fleas in chicken rearing. (1mk)

12. State **one** cause of grass staggers in cattle. (1mk)

13. State **two** causes of soft shells in eggs. (1mk)

14. Name **four** livestock production structures used to control parasites in the farm. (2mks)

15. State **two** disadvantages of using biogas as a source of power in the farm. (1mk)

16. State **four** rules of microbes that are found in the rumen of ruminant animals. (2mks)

17. List **three** duties of a worker bee in a hive. (1½mks)

18. Name **three** components of the tractor ignition system. (2mks)

19. Name the hormones that bring about the following in milk production:-

a) Contraction of muscles of the upper region of the mammary gland. (1/2mk)

b) Relaxation of mammary gland muscles (1/2mk)

c) Initiating lactogenesis (1/2mk)

d) Maintenance of pregnancy (1/2mk)

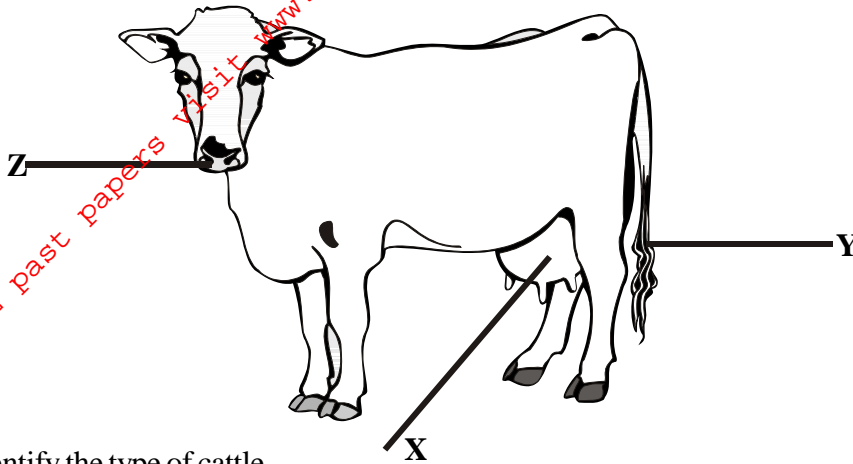
20. Why are the rear wheels of a tractor large and wider than the front wheels. (1mk)

21. State **three** conditions necessary for artificial incubation. (1 1/2 mks)

SECTION B: (20MARKS)

Answer all questions in this section

22. Below is a sketch of a livestock. Study it carefully and answer the questions that follow.



- a) Identify the type of cattle. (1mk)

- b) Explain your reason for the answer in (a) above. (1mk)

- c) Name the parts labelled:-

Y (1mk)

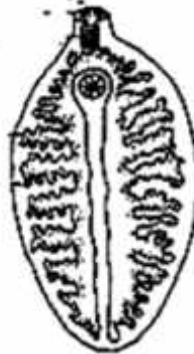
Z (1mk)

- d) Give **one** rearing practice that is carried out occasionally on the part labelled X. (1mk)

23. Diagrams G, H and J illustrates livestock parasites. Study them carefully and answer the questions that follow.



J



G



H

a) Identify the parasites.

(1½mks)

G: _____

H: _____

J: _____

b) State the category of the above parasites.

(½mk)

c) Name the part of the body in which the parasite G and J are found in livestock.

G _____ (½mk)

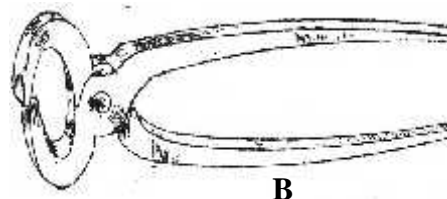
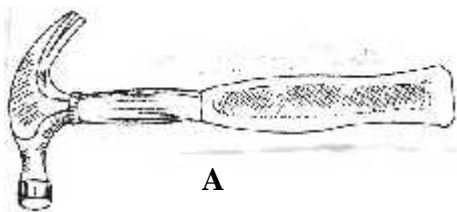
J _____ (½mk)

d) Name the intermediate hosts of parasites G and H.

G _____ (1mk)

H _____ (1mk)

24. Below are illustrations of farm tools. Study the illustrations and answer the questions that follow.



a) Identify the tools labelled A and B above.

(2mks)

A

B

b) State the use of the tool B named in (a) above.

(1mk)

c) Give **one** precaution measure that a farmer need to observe when using tool B.

(1mk)

d) Name **one** maintainace practice for tool A.

(1mk)

25. The diagram below is a special method of feeding young ones from birth to weaning. Study it carefully and answer the questions that follow.



a) Identify the type of feeding.

(1mk)

b) What **two** reasons would make a farmer carry out the above illustrated practice.

(2mks)

c) Give **two** importance of feeding colostrum to the young ones of livestock.

(2mks)

SECTION C

Answer only TWO questions in this section

26. a) Outline **ten** factors a farmer should consider to ensure fast and efficient ploughing by oxen. (10mks)
b) Describe **five** factors that are considered when selecting constructional materials in the farm. (10mks)
27. a) Discuss mastitis disease under the following sub-headings.
(i) Animals attacked (2mks)
(ii) Predisposing factors (5mks)
(iii) Symptoms (2mks)
(iv) Control and treatment (7mks)
b) Explain **four** practices carried out on fish after harvesting and before preservation. (4mks)
28. a) Outline **five** signs that indicate that a sow is about to farrow. (10mks)
b) Discuss **five** factors that affect the composition of milk. (10mks)

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