

NAME: INDEX NO:

SCHOOL:..... SIGNATURE:

DATE :

443/2
AGRICULTURE
PAPER 2
JUNE 2014
TIME: 2 HOURS

COMA JOINT EXAM 2014

Kenya Certificate of Secondary Education (K.C.S.E.)
AGRICULTURE
PAPER 2
TIME: 2 HOURS

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 questions in Section A and B.
- (e) Answer any TWO questions in section C.
- (f) Answers should be written in the spaces provided.
- (g) This paper consists of 10 printed pages.
- (h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.

FOR EXAMINER'S USE ONLY

| SECTION | QUESTIONS | MAX. SCORE | CANDIDATE SCORE |
|--------------------|-----------|------------|-----------------|
| A | 1 – 15 | 30 | |
| B | 16 – 18 | 20 | |
| C | 19 - 21 | 20 | |
| | | 20 | |
| Total Score | | 90 | |

SECTION A (30 MARKS)

Answer ALL Questions in the Spaces Provided

1. (a) Name a breed of sheep with a lambing percentage of above 125% and whose fleece may be inferior due to black features. (½mk)

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- (b) Name a goat breed which can be used for production of mohair. (½mk)

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2. Differentiate between the following tools:
(a) Baslard file and rasp file. (1mk)

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- (b) Coping saw and hack saw.

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3. List **two** equipment used in handling cattle during Agricultural exhibition. (2mks)

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4. State **four** methods of maintaining good health in livestock. (2mks)

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5. (a) State **four** signs of external parasite infestation. (2mks)

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(b) State **four** non-chemical methods of controlling ticks. (2mks)

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6. (a) State **four** characteristics of livestock roughage feedstuff. (2mks)

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(b) Give **four** functions of proteins in an animal's body. (2mks)

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7. (a) State **four** advantages of using corrugated iron sheets for roofing instead of asbestos. (2mks)

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(b) Give **two** reasons for spreading a polythene paper in the slab of farm buildings. (1mk)

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8. (a) State **four** roles played by engine oil in tractor engine. (2mks)

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(b) State **four** practices through which a farmer would ensure that no engine knock occurs in a tractor. (2mks)

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9. State **two** factors that influence the respiration rate in animals. (1mk)

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10. State **four** practices that ensure maximum harvest of fish. (2mks)

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11. State **four** reasons why farmers herd livestock. (2mks)

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12. State **one** farm implement which can be used in both primary and secondary operations. (½mk)

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13. Give a reason why Irish potatoes should not be fed to non-ruminants. (½mk)

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14. (a) What is hybrid vigour?

(½mk)

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.....
(b) Give **two** instances when hybrid vigour may be lost.

(1mk)

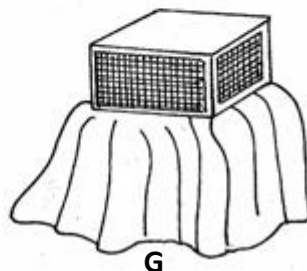
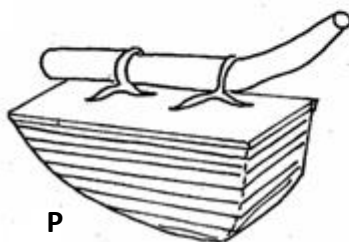
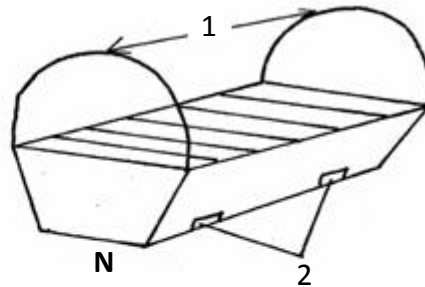
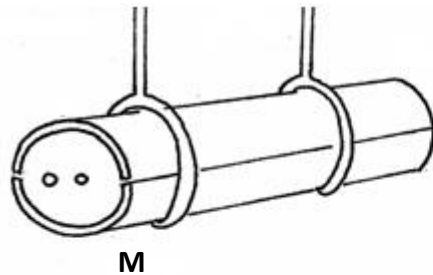
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15. State **three** reasons why farmers give milk to kids using artificial methods.

(1½mks)

SECTION B (20 MARKS)

Answer all questions in the spaces provided in this section

16. Diagrams **M**, **N**, **P** and **Q** show some structures used in apiculture. Use them to answer the questions that follow:



(a) Identify the structures labeled **M**, **N**, **P** and **Q**.

(2mks)

M.....

N.....

P.....

Q.....

(b) State the uses of equipment **P** and **Q**. (2mks)

P.....

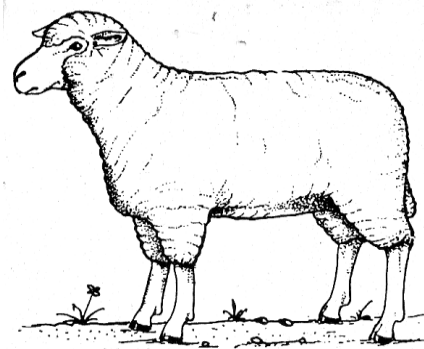
Q.....

(c) State one advantage structure **N** has over structure **M**. (1mk)

(d) State the uses of the parts labeled **1** and **2** on structure **N**. (2mks)

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17. Study the diagram below and answer the questions that follow.



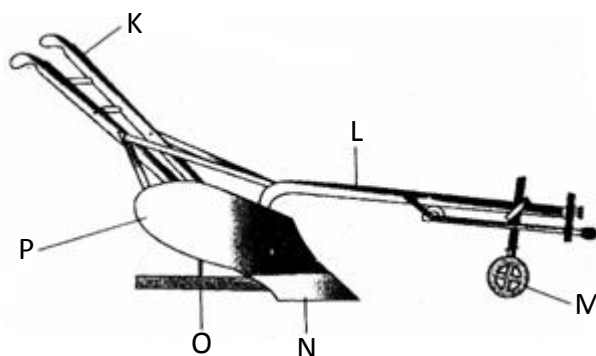
(a) Outline the reason for raddling. (2mks)

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(b) Using letter **R**, indicate on the diagram, the site of ringing. (1mk)

(c) Using letter **C**, show the position of breeding chutes. (1mk)

18. Below is an illustration of a farm implement. Study it carefully and answer the questions that follow.



(a) Identify the farm implement. (1mk)

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(b) Name the parts labeled **L, M, O** and **P**. (4mks)

L.....

M.....

O.....

P.....

(c) Give one function of the parts **K, M, N** and **P**. (4mks)

K.....

M.....

N.....

P.....

(d) Give the adjustment on the store implement to ensure deep ploughing with a wide slice. (2mks)

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SECTION C

Answer any two questions in the spaces provided

19. Using appropriate illustration, describe the process of egg formation in a layer. (20mks)

20. (a) Describe hand milking in a dairy cow. (12mks)

(b) Explain the practices observed in clean milk production. (8mks)

21. (a) Discuss Pneumonia in calves under the following sub-headings:

(i) Predisposing factors. (3mks)

(ii) Symptoms (5mks)

(iii) Control measure (3mks)

(b) Name and describe features of an ideal calf pen. (9mks)

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ANSWERS:

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