

Name 000120741 Index Number /

443/2
AGRICULTURE
Paper 2
(THEORY)
Oct./Nov. 2015
2 hours

Candidate's Signature

Date



THE KENYA NATIONAL EXAMINATIONS COUNCIL

04500202

Kenya Certificate of Secondary Education

AGRICULTURE

Paper 2

(THEORY)

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** the questions in sections **A** and **B** and any **two** questions in section **C**.
- (e) **All** answers should be written in the spaces provided on the question paper.
- (f) **This paper consists of 16 printed pages.**
- (g) **Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**
- (h) **Candidates should answer the questions in English.**

For Examiner's Use Only

| Section | Question | Maximum Score | Candidate's Score |
|-------------|----------|---------------|-------------------|
| A | 1 – 18 | 30 | |
| B | 19 – 22 | 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 four rabbit breeds reared in Kenya. (2 marks)

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2 State four characteristics of desirable eggs for marketing. (2 marks)

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3 Name two types of roughage. (1 mark)

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4 Give four disadvantages of inbreeding in livestock. (2 marks)

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5 Name the nutritional deficiency for each of the following livestock diseases:

- (a) milk fever; ($\frac{1}{2}$ mark)
- (b) bloat. ($\frac{1}{2}$ mark)

6 Give **two** reasons for docking in sheep rearing. (1 mark)

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7 State **four** signs of fowl typhoid. (2 marks)

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8 Differentiate between drift and pen lambing. (2 marks)

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9 State **four** features on the animal which may predispose it to livestock diseases. (2 marks)

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10 Give **four** factors that affect milk composition. (2 marks)

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11 State **two** control measures for keds in sheep. (1 mark)

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12 State **two** maintenance practices carried out on a greenhouse structure. (1 mark)

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13 (a) Name the goat breed which is brown in colour with white strips running down the face to the nose. ($\frac{1}{2}$ mark)

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(b) State **four** rearing practices that necessitate handling of piglets. (2 marks)

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14 Give **four** preventive measures for livestock diseases. (2 marks)

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15 State **one** function of each of the following parts during egg formation in poultry:

(a) funnel; ($\frac{1}{2}$ mark)

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(b) magnum; (1/2 mark)

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(c) isthmus. (1/2 mark)

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16 The following is a list of poultry breeds:

- White Leghorn
- Light Sussex
- Rhode Island Red
- Ancona.

Categorize them into:

(a) light breeds; (1 mark)

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(b) heavy breeds. (1 mark)

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17 State two functions of a queen in a bee colony. (1 mark)

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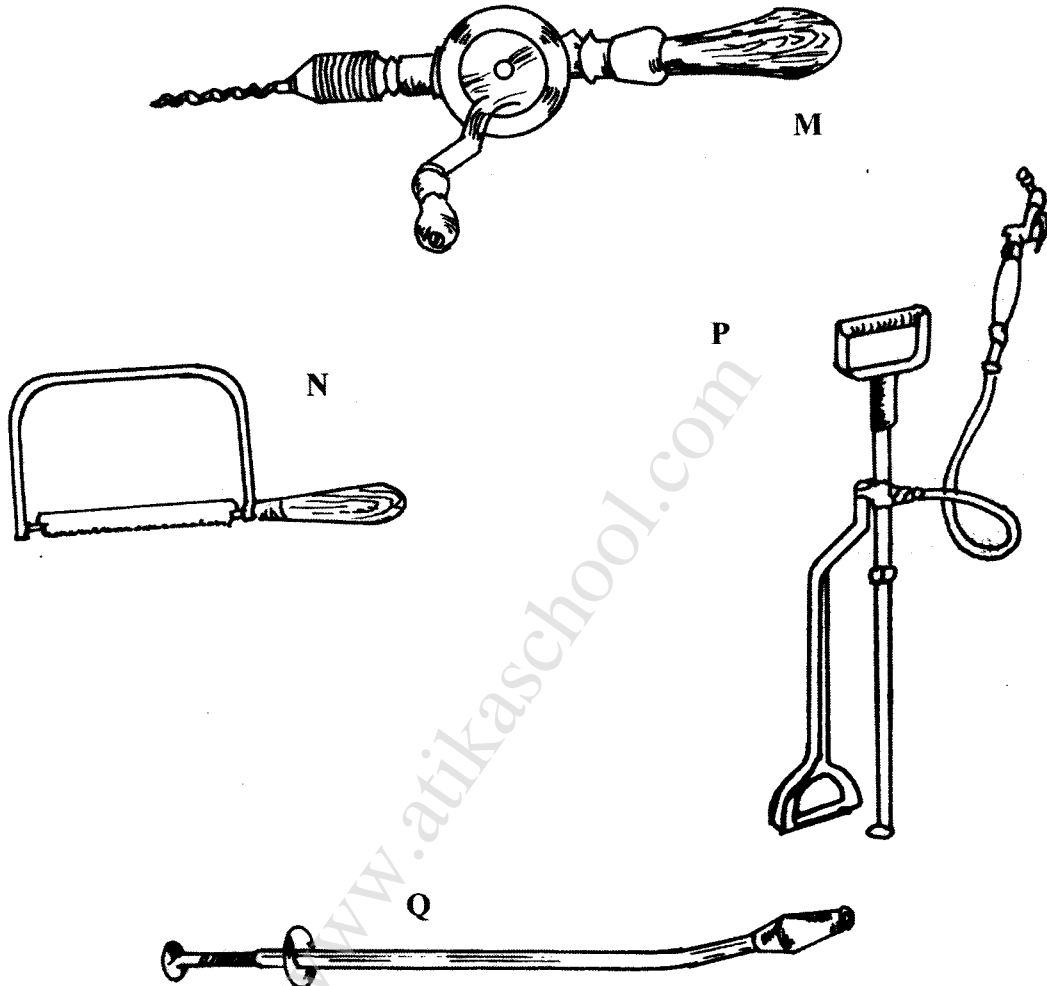
18 State four maintenance practices carried out on a fish pond. (2 marks)

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SECTION B: (20 marks)

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

- 19 The diagrams below represent some farm tools and equipment. Study them and answer the questions that follow.



- (a) Identify the tools labelled N and P.

N (1 mark)

P (1 mark)

- (b) State **one** use of each of the tools labelled M and Q.

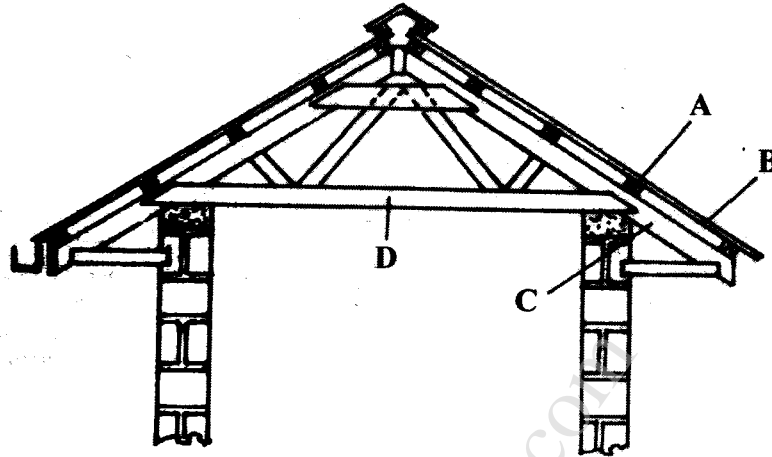
M (1 mark)

Q (1 mark)

- (c) Explain **one** maintenance practice carried out on the equipment labelled P. (1 mark)

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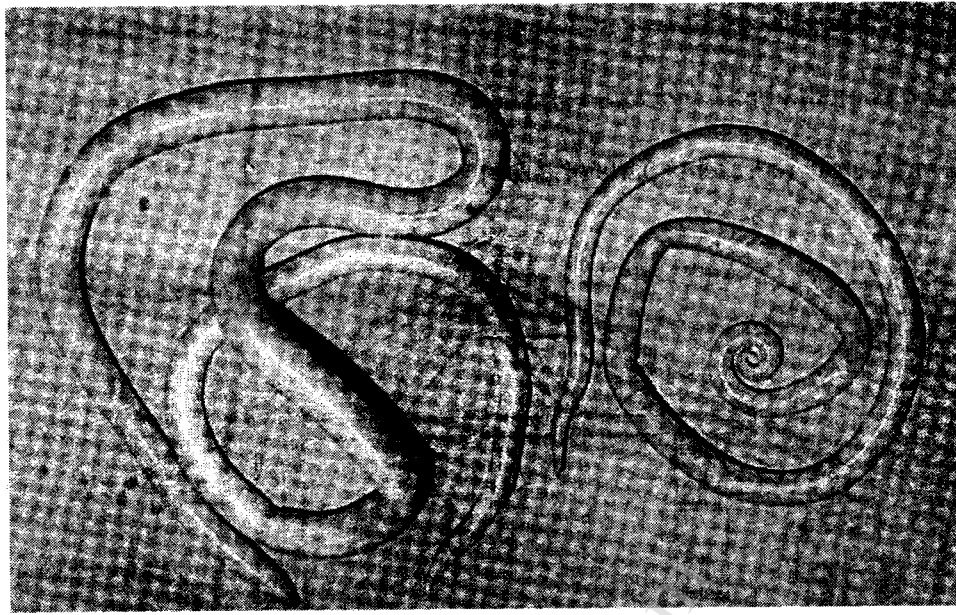
20 The diagram below represents parts of a roof.



- (a) Identify the parts labelled A and C. (1 mark)
- A (1 mark)
- C (1 mark)
- (b) State **two** types of materials that may be used for the part labelled D. (2 marks)
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- (c) Give **one** disadvantage of using thatch for the part labelled B. (1 mark)

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21 The diagram below illustrates an internal parasite of livestock.



(a) Identify the parasite. (1 mark)

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(b) Name **two** common species of the parasite illustrated above. (2 marks)

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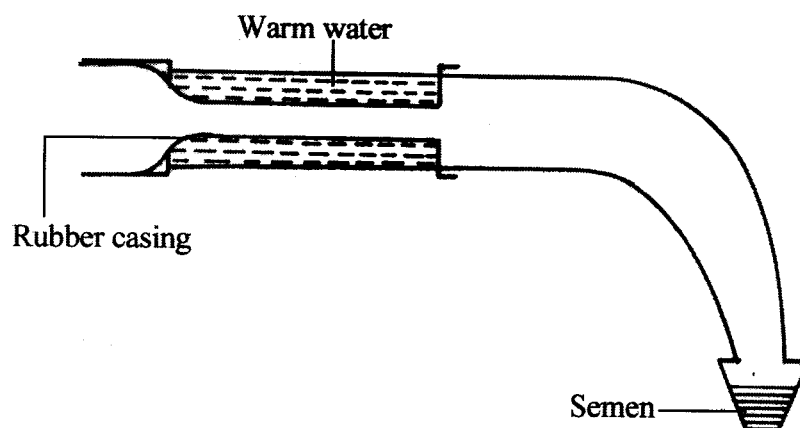
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(c) State **two** signs of worm infestation that may be observed in the dung of livestock. (2 marks)

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- 22 Below is a diagram illustrating an instrument used in cattle breeding.



- (a) Identify the instrument. (1 mark)

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- (b) State the role of the instrument in cattle breeding. (1 mark)

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- (c) When would it be appropriate to serve a cow after the onset of heat? (1 mark)

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- (d) Apart from the method in which the above instrument is used, name two other methods of serving a cow. (2 marks)

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SECTION C: (40 marks)

Answer any TWO questions from this section in the spaces provided after question 25.

- 23 (a) Give the functions of any **five** parts of a poultry egg. (10 marks)
- (b) Describe the uses of **five** materials/equipment required for hand milking. (10 marks)
- 24 (a) Describe East Coast fever under the following sub-headings:
 - (i) livestock affected; (1 mark)
 - (ii) vector and causal organism; (2 marks)
 - (iii) signs of attack; (5 marks)
 - (iv) control measures. (2 marks)
- (b) Describe the activities that take place during the digestion process in the rumen. (5 marks)
- (c) Describe the management practices that ensure proper hygiene in a deep litter poultry house. (5 marks)
- 25 (a) State **five** signs of external parasite infestation in livestock. (5 marks)
- (b) Explain **five** factors that should be considered when siting a farm store. (5 marks)
- (c) Describe the cycle of a four stroke petrol engine. (10 marks)

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