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

443/2  
**AGRICULTURE**  
**Paper 2**  
**(THEORY)**  
**Nov. 2016**  
 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**

- (a) Write your name and index number in the spaces provided above.
- (b) Sign and write the date of the examination in the spaces provided above.
- (c) This paper consists of **three** sections: **A**, **B** and **C**.
- (d) Answer all the questions in section **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
<b>A</b>	1-16	30	
<b>B</b>	17-21	20	
<b>C</b>		20	
		20	
<b>Total Score</b>		<b>90</b>	



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**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. Give the meaning of the following terms as used in livestock health.

- (a) disease (1 mark)

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- (b) vaccination (1 mark)

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3. State **four** advantages of artificial calf rearing in dairy cattle management. (2 marks)

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4. List **four** materials that can be used in the construction of a Kenya Top Bar Hive. (2 marks)

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5. Give **four** features of housing that help to control livestock diseases. (2 marks)

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

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7. Give **four** characteristics of a good site for a fish pond. (2 marks)

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8. Name **four** systems of a tractor engine. (2 marks)

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9. What is dry cow therapy? (1 mark)

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10. Give **two** reasons for steaming up in dairy cattle management. (2 marks)

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11. State **four** maintenance practices for a disc plough. (2 marks)

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12. List **four** preventive measures for livestock diseases. (2 marks)

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13. Give **two** reasons for using litter in a poultry house. (1 mark)

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14. State **four** disadvantages of fold system in poultry rearing. (2 marks)

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15. State **four** practices that come immediately after complete milking in a milking shed. (2 marks)

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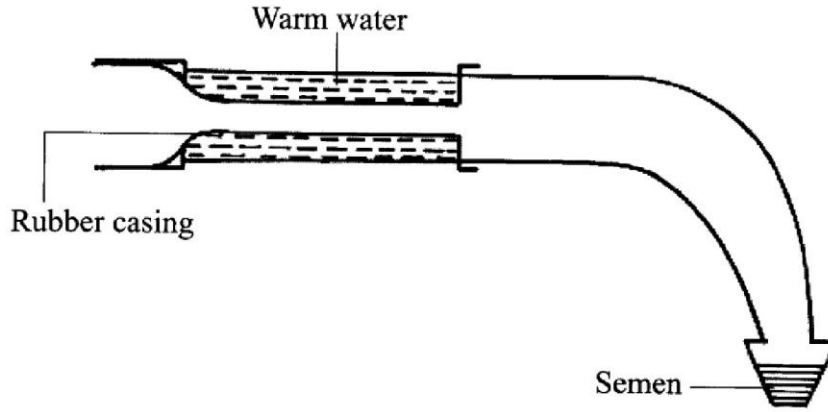
16. List **four** tools that are used when laying concrete blocks during construction of a wall. (2 marks)

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**SECTION B** (20 marks)

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

17. Below is a diagram illustrating an instrument used in cattle breeding. Study it carefully and answer the questions that follow.



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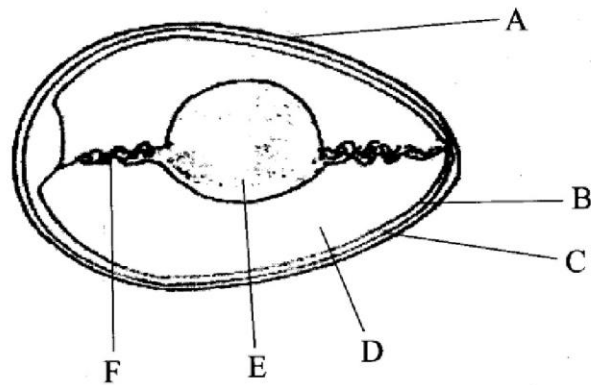
- (c) When should it be appropriate to serve a cow after onset of heat? (1 mark)

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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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18. The diagram below is an illustration of an egg. Study it carefully and answer the questions that follow.



- (a) Name the parts labelled B, C, D and F

B ..... (½ mark)  
 C ..... (½ mark)  
 D ..... (½ mark)  
 F ..... (½ mark)

- (b) State **two** qualities of the part labelled A that should be considered when selecting eggs for incubation. (2 marks)

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- (c) What is the function of the part labelled E in a fertilised egg? (1 mark)

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19. The photograph below illustrates a method of identification labelled x in cattle. Study it carefully and answer the questions that follow.



(a) Name the identification method. (1 mark)

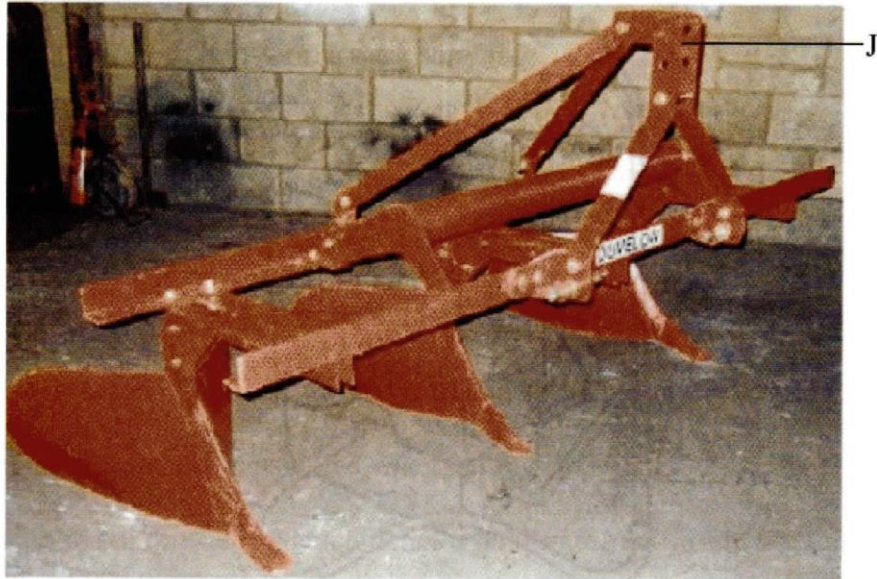
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(b) Explain **three** disadvantages of the identification method. (3 marks)

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20. Below is a picture illustrating a farm implement. Study it carefully and answer the questions that follow.



(a) Identify the implement illustrated above. (1 mark)

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(b) State the use of the:

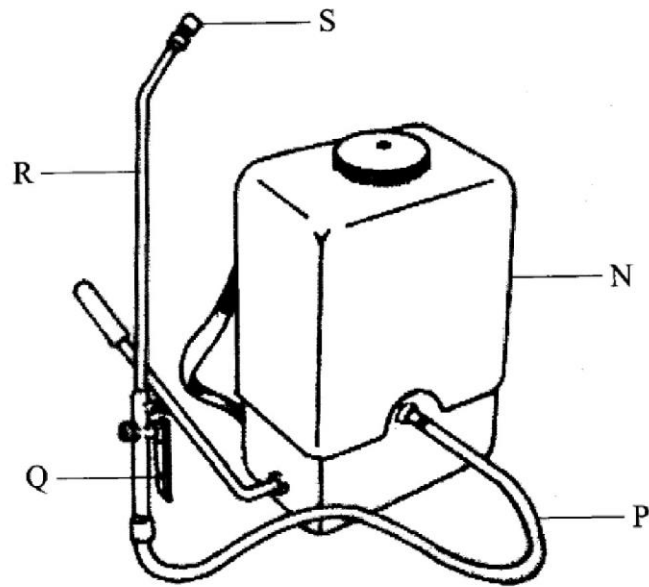
(i) Implement on the farm. (1 mark)

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(ii) Part of the implement labelled J. (1 mark)

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21. Below is a diagram of a knapsack sprayer. Study it carefully and answer the questions that follow.



- (a) Name the parts labelled N, P, Q and R.

N ..... (½ mark)

P ..... (½ mark)

Q ..... (½ mark)

R ..... (½ mark)

- (b) State **one** function of the part labelled S (1 mark)

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**SECTION C (40 marks)**

*Answer any two questions in this section in the spaces provided after question 24.*

- 22. (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)
- 23. (a) Describe the uses of fences on the farm. (10 marks)
- (b) Give **five** harmful effects of liver flukes in sheep rearing. (5 marks)
- (c) Explain the factors considered when culling livestock. (5 marks)
- 24. (a) Describe **ten** physical characteristics a poultry farmer would use to identify poor layers from a flock of hens. (10 marks)
- (b) (i) Outline **three** characteristics of clean milk. (3 marks)
- (ii) Explain **seven** factors that affect milk composition in dairy farming. (7 marks)

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