

Name: ..... Index No: .....

Candidate's signature.....

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**Muungano KCSE Trial Exam**

443/2  
**AGRICULTURE**  
**PAPER 2**  
**July 2017**  
**2 Hours**

**INSTRUCTIONS TO CANDIDATES**

Write your name and index in the spaces provided.

This paper consists of **THREE** sections **A**, **B** and **C**.Answer all the questions in sections **A** and **B** and **ANY TWO** questions in sections **C**.

Answers should be written in the spaces provided.

For Examiner's Use Only

Section	Question	Maximum Score	Candidates Score
A	1 – 19	30	
B	20 - 23	20	
C	24 - 26	20	
		20	
<b>Total Score</b>		<b>90</b>	

*This paper consists of 8 printed Pages*

*Candidates should check the question paper, to ensure that all the pages are printed as indicated;*

*and no questions are missing*

**SECTION A (30marks)**

Answer **ALL** questions from this section.

1. **Define** the word breech of birth as used in livestock production (1mk)

.....

2. **Study** the table below and **fill in** the missing words (3mks)

<b>Description</b>	<b>Cattle</b>	<b>Pigs</b>	<b>Poultry</b>
Young from birth/ hatching to weaning			Chick
Young female before first parturition		Gilt	
Mature male for breeding	Bull		

3. **Outline** the importance of feed additives. (1mk)

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 .....

4. **List four implements** used to carry out secondary cultivation. (2mks)

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 .....

5. **Give two reasons** why walls of dairy shed should be white washed instead of painting with oil paints. (1mk)

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 .....

6. **State two uses** of wind power on the farm. (2mks)

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 .....

7. **Name the two hormones** that control milk left down in dairy cow (1mk)

.....  
 .....

8. **Name any two** parts of a marking gauge. (2mks)

.....  
 .....

9. **Give two uses** of litter in a poultry house (2mks)

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.....

10. **List four** post milking practices (2mks)

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.....  
.....

11. **Name two diseases** that affect female animals only (1mk)

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.....

12. **State four maintenance** practices carried out on a tractor battery (2mks)

.....  
.....  
.....

13. **State four factors** that would contribute to depreciation of farm equipment (2mks)

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.....  
.....

14. **State the measures** that prevent egg eating in poultry. (2mks)

.....  
.....  
.....

15. **Name two livestock diseases** controlled by the same vaccine and **name** the vaccine. (1½mks)

Disease (i) .....

(ii) .....

Vaccine .....

16. **State three** maintenance practices carried out on a milking machine (1½mks)

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.....  
.....

17. Apart from high butter fat **which other good qualities** is jersey breed having over other exotic dairy breeds. (1mk)

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18. **State two functions** of a coulter on a mould board plough. (1mk)

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.....

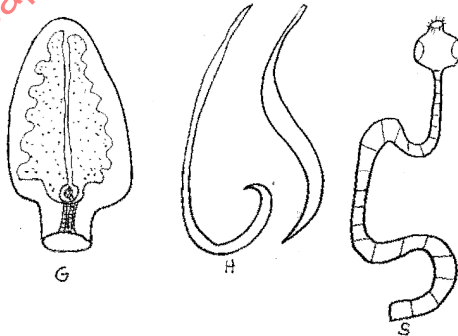
19. **Name two** dual purpose breeds of cattle (1mk)

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.....

**SECTION B: (20 MARKS)**

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

20. The diagrams labeled **G, H,** and **S** below illustrates three livestock parasites. Study them and answer the questions that follow:



a) **Identify** the parasites: (1½mks)

**G)** .....  
**H)** .....  
**S)** .....

b) **State** the category to which the three parasites **G, H,** and **S** belong to (1mk)

.....

c) **Name** the parts of organs of the host body where parasites **G** and **S** are found respectively. (1mk)

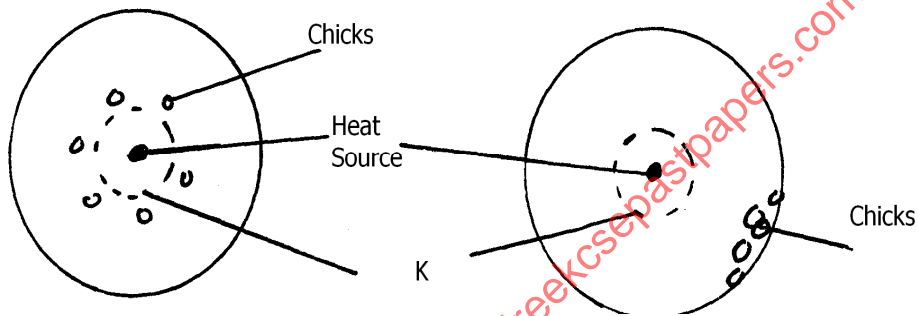
**G** .....

**S**.....

d) **State any three** control measures of the parasite **G** (1½mk)

.....  
 .....  
 .....

21. Study the following diagram showing the behaviour of chicks with temperature variations in a brooder.



a) **Identify** part **K**. (1mk)

.....

b) **Describe** the behaviour of chicks in: (2mks)

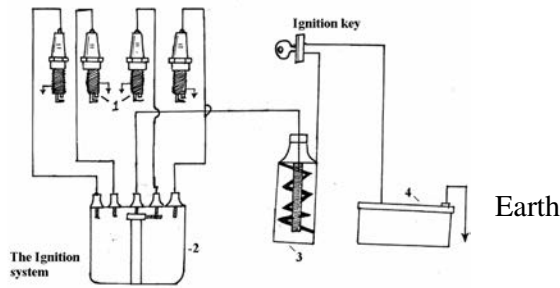
i) **X** .....

ii) **W** .....

22. (a) A farmer wanted to prepare a 200kg of calf rearing ration containing 20% DCP. Using the Pearson's square method, **calculate** the amount of maize containing 10% SCP and Sunflower containing 35% DCP that the farmer would need to prepare the ration (*show your working*) (4mks)

.....  
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 .....  
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23. The illustration below shows the major parts of a tractor ignition system. **Study** it carefully and **answer** the questions that follow.



- a) **Name** the parts of the illustration labeled. (2mks)
- 1.....
- 2.....
- 3.....
- 4.....

- b) **What** are the functions of the parts of the system labeled 1, 2, and 3? (3mks)
- 1.....
- 2.....
- 3.....

- c) **State the maintenance** practices that should be carried out on the ignition system of a tractor. (3mks)
- .....
- .....
- .....

**SECTION C (40 MARKS)**

**Answer any two questions in this section in the spaces provided after question 26**

24. a) **State and explain five** factors that influence the siting of farm structures (10mks)
- b) **Outline five advantages** of fences in a farm (5mks)
- c) **Outline five methods** of reinforcing fences to make them stronger (5mks)
25. (a) **Describe** the different parts of cattle dip giving function of each. (12mks)
- (b) **Give three differences** between a petrol engine and diesel engine. (3mks)
- (c) **State three main practices** necessary for a tractor battery. (3mks)
- (d) **Give two methods** through which the tractor drawn implements are attached. (2mks)
26. a) **Describe the management** practices that should be carried for a sow and piglets during the farrowing period. (12mks)
- b) **Explain reasons why** a breeding boar may be culled. (8mks)



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