

NAME: _____ INDEX NO. _____

CANDIDATES SIGNATURE: _____

DATE: _____

AGRICULTURE

PAPER 2

TIME: 2 HRS

GATUNDU-SUB COUNTY SECONDARY SCHOOLS JOINT EXAMINATION

AGRICULTURE

PAPER 2

JULY/AUGUST 2016

TIME: 2 HRS

INSTRUCTIONS TO CANDIDATES

- 1) Write your name and index number in the spaces provided.
- 2) Sign and write the date of examination in the spaces provided.
- 3) The paper consist of three sections: A, B and C.
- 4) Answer **all** questions in sections A and B
- 5) Answer only **two** questions from section C.
- 6) Write all answers in the spaces provided.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-20		
B	21- 24		
C			
TOTAL SCORE			

SECTION A: 30mks

Answer all the questions in this section in the space provided.

1. Name **three** methods that are used in selection of breeding stock in livestock production. 1
½ mks

2. In the preparation of artificial colostrum what is the role of each of the following:
(a) Castor oil. 1mk

- (b) Cod liver oil. 1mk

3. Name **two** non-infectious causes of livestock diseases. 1mk

4. State **two** methods of igniting the fuel-air mixture in a tractor engine. 1mk

5. State **two** advantages of natural calf rearing. 1mk

6. Define the following term:

(i) Killing out percentage. 1mk

(ii) Instinct in sheep. 1mk

7. State **three** instances when a beekeeper may handle bees. 1 ½ mks

8. (a)What is dry cow therapy in dairy cattle management? 1mk

(b) At what stage of gestation is dry cow therapy practiced? 1mk

9. Name the most appropriate tools used in the following operations.

(a) Removing metal clippings in files. 1mk

(b) Cutting wood along grains. 1mk

(c) Cutting identification marks on ears of an animal. 1mk

10. State **three** signs of heat in pigs. 1 ½ mks

11. State **two** functions of a queen bee in a colony. 1mk

12. (a) Name a tractor drawn implement that achieves both primary and secondary tillage at the same time. ½ mk

(b) Give two categories of tractor drawn implements on the basis of the mode of attachment. 1mk

13. Give **three** reasons for carrying out egg candling before incubation. 1 ½ mks

14. Give **three** symptoms of liver fluke attack in cattle. 1 ½ mks

15. State **two** examples of water-soluble vitamins. 1mk

16. Give **three** pig breeds that are good for bacon production. 1 ½ mks

17. How does the principle of enclosure (quarantine) operate in livestock production? 1mk

18. State **three** characteristics of creep feed that make them appropriate for piglets. 1 ½ mks

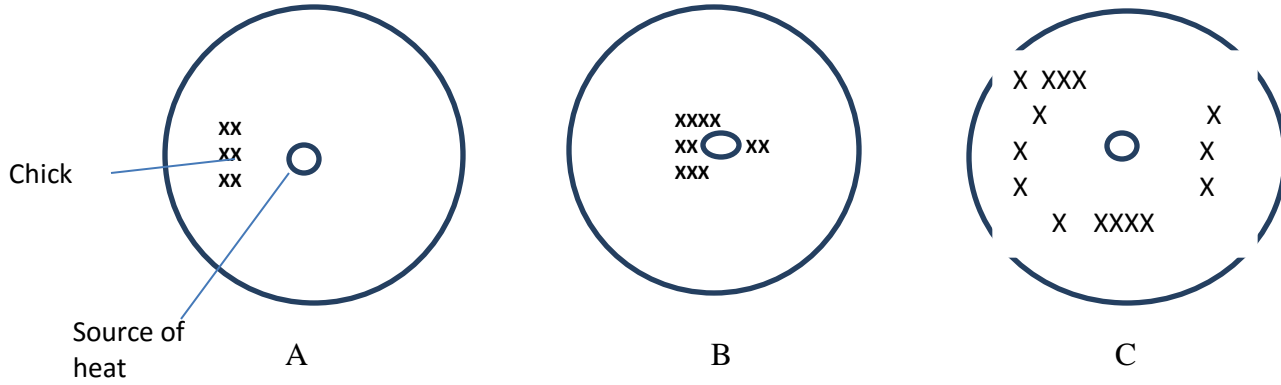
19. Outline **four** major differences in reproductive system of poultry and that of cattle. 2mks

20. Give **two** uses of calcium in dairy goats. 1mk

SECTION B: 20mks

Answer all questions in this section in the spaces provided.

21. The diagram below shows behavior of chicks in a brooder in response to heat. Study the diagram and answer the questions that follow.



(a) Explain the behaviour of chicks in each case. 3mks

A

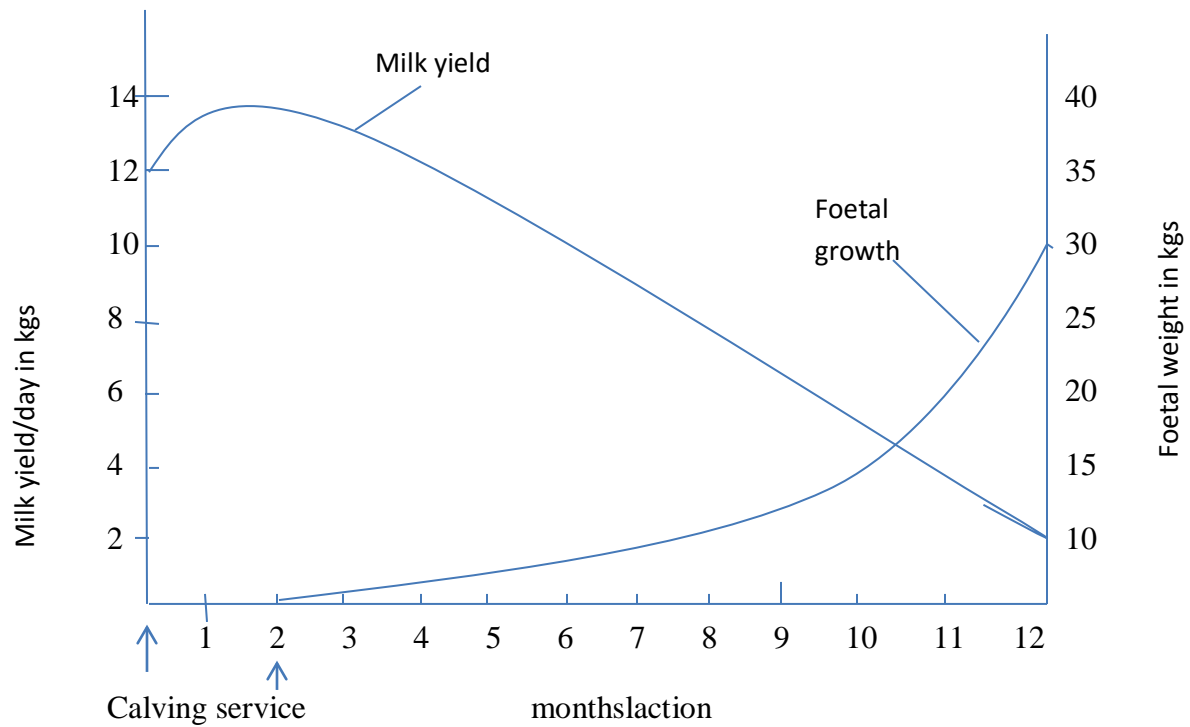
B

C

(b) Explain why the brooder guard is rounded. 1mk

(c) Draw a diagram to show the behavior of the chicks if the temperature in the brooder is optimum. 1mk

22. The graph below shows the relationship of milk yield and foetal growth against time.



(a) Name the stage between the months in respect to lactation and gestation. 2mks

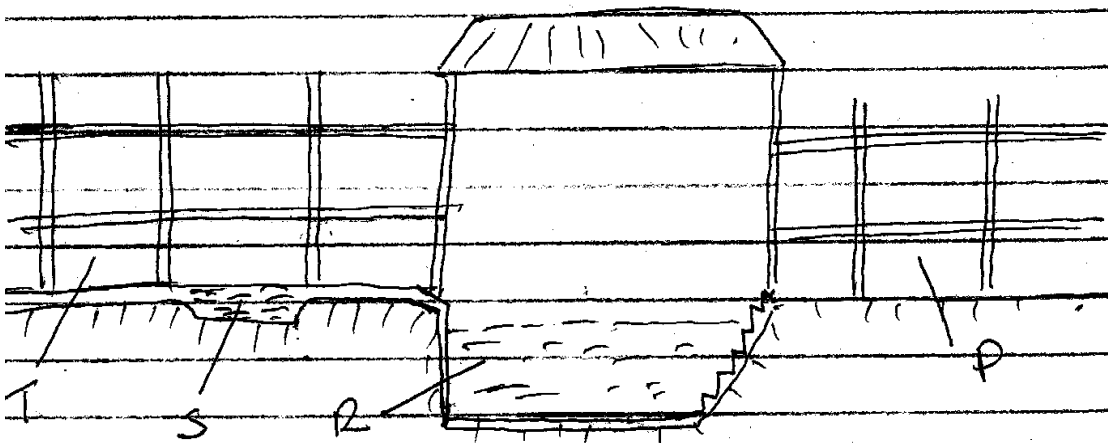
(i) 2rd to 12th month.

(ii) 1st to 10th month.

(b) Apart from dry cow therapy, give one practice carried out on the incalf cow within the period from the 10th to the 12th month. 1mk

(c) State two routine practice a farmer should avoid carrying out on the incalf cow between the 10th and 12th month. 2mks

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



(a) Identify the above structure. 1mk

(b) Name the parts labeled:- 2mks

T – _____

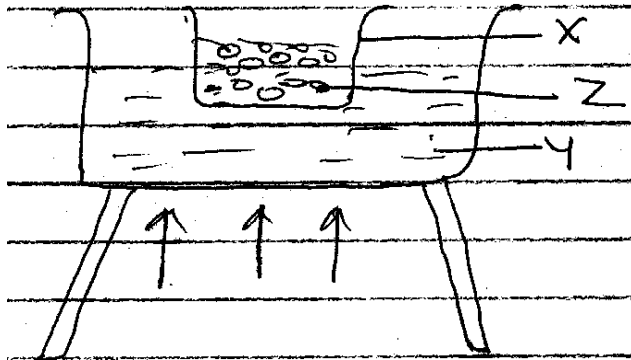
S – _____

R – _____

P – _____

(c) State two factors considered in siting the above structure. 2mks

24. Below is an illustration of a method of extracting honey from combs. Study the diagram and answer the questions that follow.



(a) Identify the above method of extracting honey. 1mk

(b) Give a reason why container X should not be heated directly. 1mk

(c) Name the parts labeled:- 3mks

X: _____

Y: _____

Z: _____

SECTION C: 40mks

Answer any two questions from this section in the spaces provided.

25. (a) Describe Anthrax under the following sub-headings.

(i) Causal agent. 1mk

(ii) Mode of transmission. 4mks

(iii) Symptoms. 5mks

(iv) Control 2mks

(b) Describe using relevant examples, the signs of parasite attack on animals. 8mks

26. (a) Outline the importance of fences in a mixed farm. 10mks

(b) Describe digestion of grass in the rumen of a cow. 10mks

27. (a) Describe 10 daily maintenance and servicing of a tractor before use. 10mks

(b) Describe uses of various tools used when erecting a stone wall. 10mks
