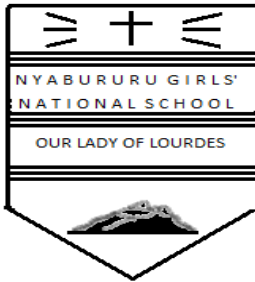


NAME.....CLASS.....C/NO.....

SIGNATURE.....



DATE DONE.....

INVIGILATOR.....

DATE RETURNED.....

DATE REVISED.....

FORM FOUR AGRICULTURE

JANUARY SERIES

PAPEER 2

TIME: 2 HOURS

INSTRUCTIONS INSTRUCTIONS TO CANDIDATES:

- Write your **Name, and class number** in the spaces provided above.
- Write the **Date** of Examination in the spaces provided above.
- This paper consists of **THREE** Sections **A, B** and **C**.
- Answer **ALL** questions in Section **A** and **B** and any **TWO** questions in Section **C**.
- Answers should be written in the spaces provided.
- Candidates should check to ensure that no questions are missing.

FOR EXAMINERS USE ONLY

S

| Section | Max score | Candidate's score |
|-------------------------|------------------|--------------------------|
| A 1 - 18 | 30 | |
| B 19 – 21 | 20 | |
| C 22 – 24 | 40 | |
| Total | 90 | |

SECTION A (30MKS)

Answer all questions in this section in the spaces provided

1. State causal organism of Anaplasmosis in cattle (½ mks)

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2. State any 4 materials used in construction of Kenya Top Bar Hive (KTBH) 2mks)

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3. State any 4 reasons of castration. (2mks)

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4. State any 4 characteristics of roughages. (2 mks)

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5. State any four roles of worker bees in a hive. (2 mks)

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6. State any 3 limitations of using solar power. (1 ½ mks)

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7.. State two reasons for raddling in sheep management. (1 mk)

.....
8.. State two roles of piston rings in a tractor engine. (1 mk)

.....
9. Name the exotic breed of cattle with

(i) Highest butter fat content.....(½mks)

(ii) Lowest butter fat content.....(½mks)

10.. State four operational differences between disc plough and mould board plough (4 mks)

.....
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.....
11. State the functions of the following parts of mould board plough. (2 mks)

(i) Mould board.....

(ii) Frog.....

(iii) Landslide.....

(iv) Share.....

(b) How long is the oestrous cycle in cattle? (½ mark)

.....
12. Name one poisonous/anti-nutritional chemical compound found in each of the following livestock feedstuffs. (1 ½ marks)

- i. Sorghum
- ii. Irish potatoes.....
- iii. Cotton seed cake.....

13 State four reasons for constructing a fish pond on gently sloping land. (2marks)

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14 Differentiate between mothering ability and prolificacy as used in livestock breeding. (1mark)

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15 Give two reasons for applying oil and grease on a mower. (1mark)

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16 State three limitations of embryo transfer technology. (1 ½ marks)

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17 Give three reasons why calves should be fed on colostrum (1 ½ marks)

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18 State four causes of swarming of bees (2mks)

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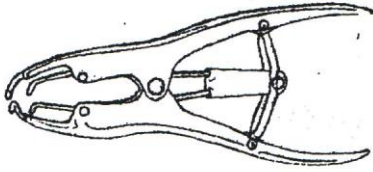
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SECTION B (20 MKS)

Answer all the questions in this section in the spaces provided

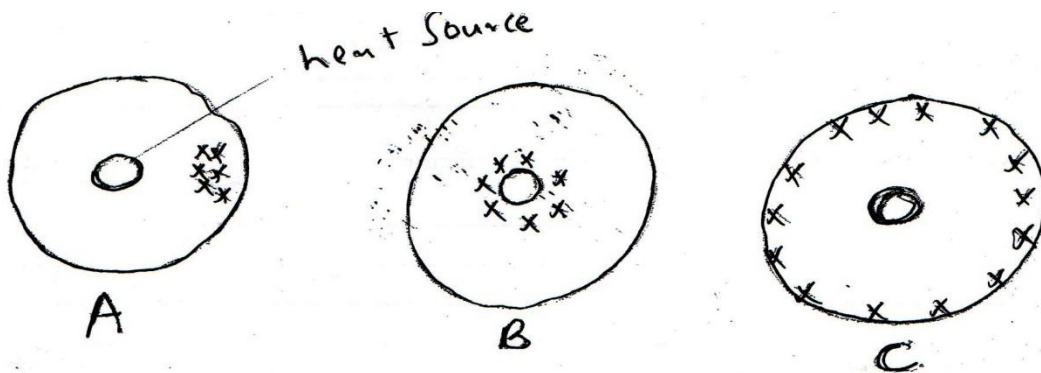
19. The diagram below is a farm tool. Study it and answer the question that follow.



(a) Identify the tool.....(1mk)

(b) State the use of the to.....(1mk)

20. The diagram below shows the behaviour of chick in a brooder. Study them and answer the questions that follow.



(i) State the causes of the chicks behaviour in A, B and C (3mks)

A

B

C.....

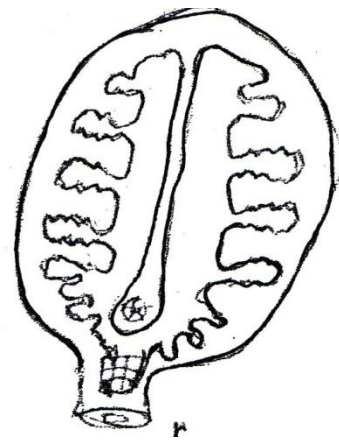
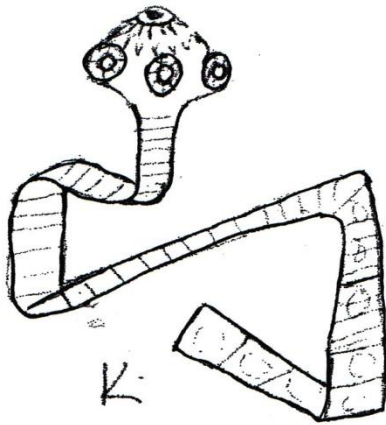
(ii) Give two reasons for making brooder wall round in shape (2mks)

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20. Study the diagrams below and answer the questions that follow.

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(a) Identify the above organisms.

2 mks)

K

N.....

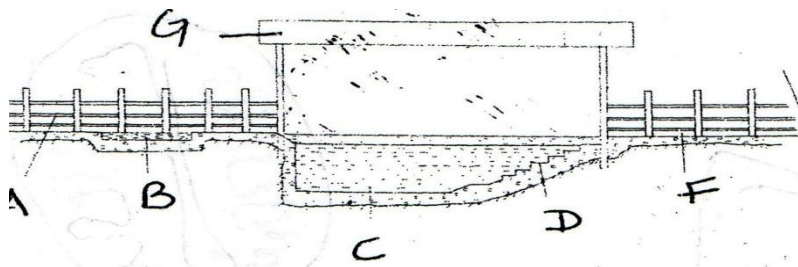
(b) State the economic importance of the above organisms.

(3 mks)

(c)

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21. Below is an important farm structure. Study it and answer the questions that follow.



(a) Identify the farm structure

(1mk)

.....

(b) Name the parts labeled A, B, C, D, E, F

(3mks)

A

B

C

D

E

F.....

(c) State the functions of parts labeled B and G (2 mks)

B

G.....

(d) state two factors that should consider when siting the farm structure you have identified in (a) above

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SECTION C (40 MKS)

Answer ANY TWO questions in this section in the spaces provided after each question.

22. (a) Discuss East Coast Fever under the following subheadings.

(i) Causal organism(1mk)

(ii) Vector.....(1mk)

(iii) Incubation period(1mk)

(iv) Symptoms (6mk)

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(v) Control (4mks)

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(vi) Livestock affected.....(1mk)

(b) State five predisposing factors of mastitis (6 mks)

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23. Explain the management of piglets soon after birth up to 8 weeks of age. (10 marks)

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a) Describe the maintenance requirements of the battery of a tractor. (10marks)

[illegible]

24 (a) Describe the factors considered when selecting a breeding boar.

(10marks)

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(b) Describe the characteristics of eggs selected for incubation.

(5marks)

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(c) Describe five factors which affect the quality of honey.

(5marks)

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