**Name: ……………………………………………... Index no ……..….....................................**

**School: …………………………………………….. Candidate’s sign …………………….......**

**Class………………………………………….…..… Adm No…………………...……………...**

**AGRICULTURE**

**PAPER 2 (443/2)**

**JANUARY 2021**

**TIME: 2 HOURS**

**FORM FOUR KASSU MOCK**

***Kenya Certificate of Secondary Education (K.C.S.E.)***

**Agriculture**

**Paper 2**

**INSTRUCTIONS TO CANDIDATES:**

* *Write your* ***name, index number,******school, class*** *and* ***admission number*** *in the spaces provided.*
* *Sign and write the date in the spaces provided above.*
* *Answer* ***all*** *the questions in section* ***A*** *and* ***B***
* *Answer any* ***two*** *questions in section* ***C.***
* *Answers should be written in the spaces provided in this booklet.*

***For Examiner’s Use Only:***

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTIONS** | **MAXIMUM SCORE** | **CANDIDATES SCORE** |
| A | 1-20 | 30 |  |
| B | 21-24 | 20 |  |
| C |  | 20 |  |
|  | 20 |  |
|  | **TOTAL** | **90** |  |

*This paper consists of 11 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.*

**SECTION A (30MARKS)**

1. Give **four** livestock rearing practices that can be carried out in a crush. (2mks)

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1. Name the part of the digestive system of poultry where insoluble grit is found.

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1. Give **two** distinguishing external characteristics of Californian breed of rabbit. (1mk)

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1. State **four** pre-disposing factors of livestock diseases. (2mks)

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1. Outline **four** functions of proteins in the body of an animal. (2mks)

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1. State **four** observable features of indigenous cattle (*Bos indicus*) (2mks)

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1. State **four** importance of creep feeding. (2mks)

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1. Name **four** materials that are collected by bees. (2mks)

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1. Give the function of each of the following parts of a fish pond.
2. Spillway

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1. Outlet

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1. State **four** advantages of cross-breeding. (2mks)

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1. Name the part of the digestive system of a non-ruminant animal where cellulose is broken down

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1. State **three** field conditions under which a disc plough should be used instead of a mouldboard plough.

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1. State **four** advantages of artificial incubation in comparison to natural incubation as a method of hatching chicks.

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1. Give **four** maintenance practices carried out on the water cooling system of a tractor. (2mks)

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1. State **four** advantages of a four-stroke cycle engine. (2mks)

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1. Give **three** reasons why drenching alone is not an effective method of controlling intestinal parasites in livestock.

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1. Name **three** poultry diseases that are controlled by vaccination.

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1. Give the mineral whose deficiency causes the following disorders in livestock.
2. Anaemia

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1. Parakeratosis

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1. Give **three** reasons why liming is done in fish ponds.

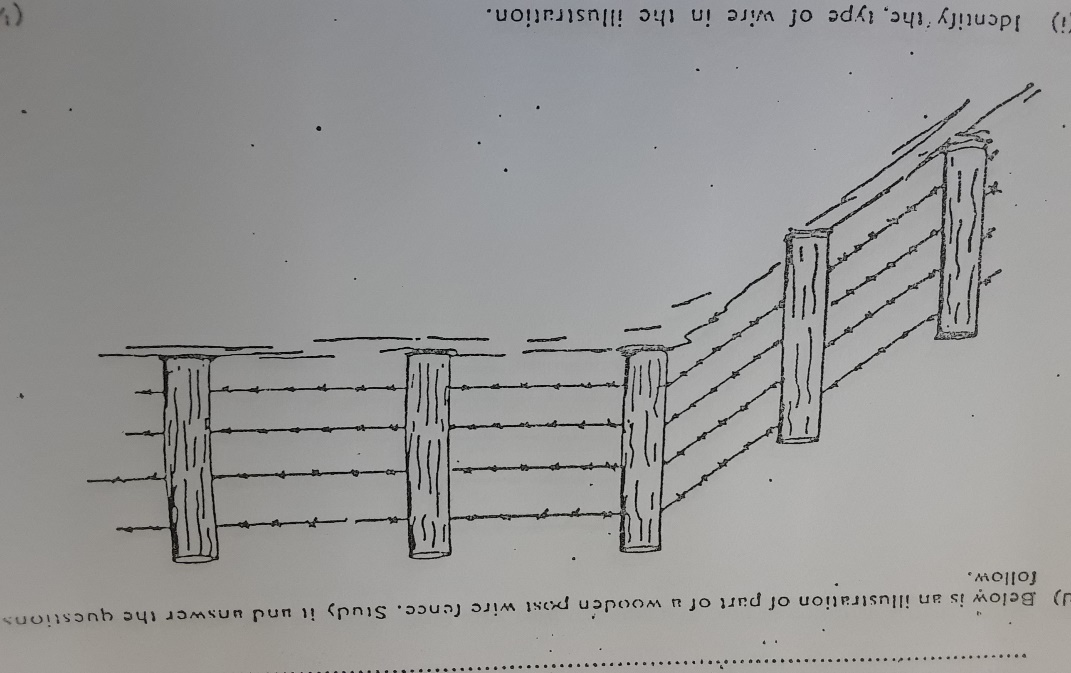
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1. If records show that a rabbit was served on 27th September 2020.Which date did it give birth.

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**SECTION B (20 MARKS)**

1. Below is an illustration of part of a wooden post wire fence. Study it and answer the questions that follow.



1. Identify the type of wire in the illustration. (1mk)

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1. On the illustration show by drawing how the corner post should be supported. (1mk)
2. On the illustration draw, label and give the function of a dropper. (2mks)

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1. Name the correct tool for tightening the wire during construction of the fence. (1mk)

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1. Observe the tools A, B and C illustrated below then answer the questions that follow.

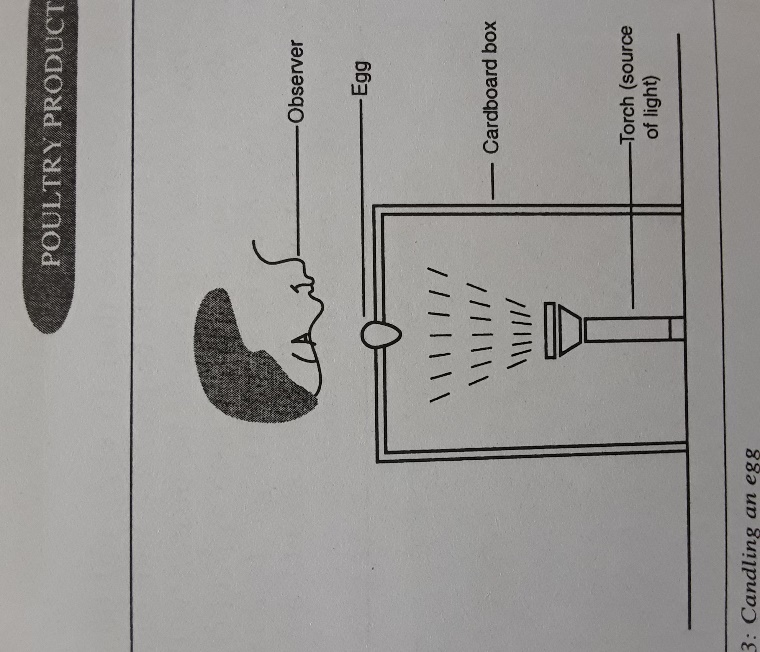
1. Name tools A, B and C and state the correct use of each tool. (3mks)

|  |  |  |
| --- | --- | --- |
| Tool | Identity | Function |
| A |  |  |
| B |  |  |
| C |  |  |

1. State **two** maintenance practices that should be carried out to ensure that tool C is in a good working condition. (2mks)

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1. Below is an illustration of an activity carried out by a poultry farmer keeping layers



1. Identify the activity carried out using the set-up. (1mk)

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1. State **four** abnormalities in eggs that can be detected using the set-up above. (2mks)

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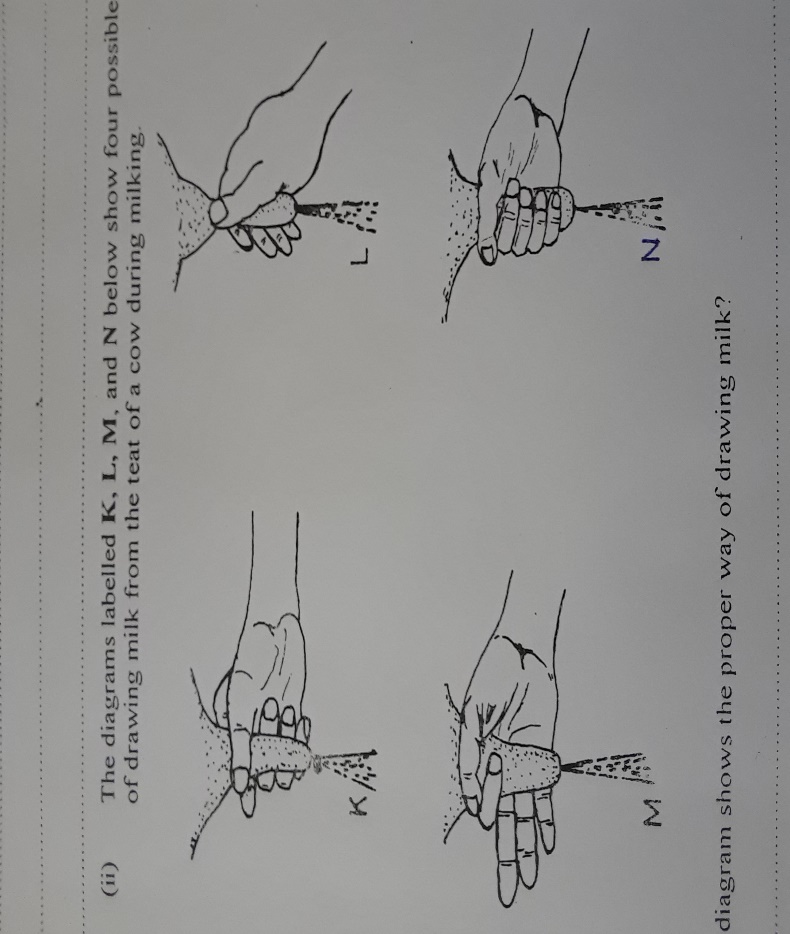
1. How can a farmer improve the following?
2. Hardness of egg shells. (1mk)

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1. Yellowness of the egg yolk. (1mk)

…………………………………………………………………………………………

1. The diagrams K, L, M and N below show four possible ways of drawing milk from the teat of a cow during milking.



1. Which diagram shows the proper way of drawing milk. (1mk)

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1. How long should it take to milk a cow from the start to the end of milking. (1mk)

………………………………………………………………………………………………

1. How would a milkman ensure that no milk remains in the udder at the end of milking?

(1mk)

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1. Give **two** practices carried out on milk immediately after milking. (2mks)

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**SECTION C (40MARKS)**

1. a) Describe the advantages of battery cage system of rearing layers. (10mks)

b) State and explain **five** factors affecting milk production. (10mks)

1. a) State the functions of any **six** parts of a plunge dip. (6mks)

b) State and explain **four** ways through which power transmitted from the engine is made available for use. (4mks)

c) Explain **five** mechanical methods of controlling ticks. (10mks)

1. a) State **five** advantages of embryo transplant. (5mks)

b) Describe coccidiosis disease under the following sub- headings.

1. Animals attacked (2mks)
2. Causal organism (1mk)
3. Symptoms (4mks)
4. Control measures (3mks)

c) A ration containing 20% DCP for growing chicks is to be obtained by mixing ground maize containing 10% DCP and fishmeal containing 50% DCP. Calculate the amount of each feedstuff in kilograms required to prepare 200kg of the feed. (5mks)

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