KCSE MOCKS

AGRICULTURE PAPER 2

Consists 3 KCSE Mock set Exams.

(Class of KCSE March 2021)

For Marking Schemes Contact Mr Machuki 0795491185

Kenya Educators Contacts:

+254795491185

kenyaeducators@gmail.com

For more e-learning resources contact Kenya Educators via the contacts above.

FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0795491185

PRE-MOCK 1

NAME ……..…….. DATE ……

ADM NO. …….……..…..…. CANDIDATE'S SIGNATURE ……..…..……..

443/2
AGRICULTURE
PAPER 2 (THEORY)
TIME: 2 HOURS

KCSE PRE-MOCK 1

Kenya Certificate of Secondary Education

443/2
AGRICULTURE
PAPER 2 (THEORY)
TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

1. Write your name and ADM number in the spaces provided above.
2. This paper has **THREE** sections: A , B and C
3. Answer **ALL** the questions in section A and B and any **TWO** questions in section C
4. ALL answers **MUST** be written in the spaces provided.
5. Do not remove any pages from this booklet.
6. This paper consists of 10 printed pages. Candidates should check to ensure that all pages are printed as indicated and no questions are missing

FOR EXAMINER'S USE ONLY

	Questions	Maximum score	Candidate's score
A	**01 - 16**	**30 marks**	
B	**17 - 20**	**20 marks**	
C	**21 - 23**	**40 marks**	
		Total score	

SECTION A (30MARKS)

Answer All the questions in this section in the spaces provided.

1. a) List **two** dairy goat breeds (1mk)

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b) Give **two** advantages of keeping a Jersey cow instead of a Friesian. (1mk)

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2. Give **two** importance of keeping health records in a farm. (1mk)

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3. a) What is pica as used in livestock production. (½mk)

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b) State **three** importance of keeping livestock healthy. (1½mks)

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4. Name an intermediate host for each of the following parasites.

i) Tapeworm (*Taenia solium*) (½mk)

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ii) Liver Fluke (*Fasciola hepatica*) (½mk)

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5. a) Name the type of breeding system represented below. (½mk)

Ayrshire Sire **x** Boran Dam ⟶ F1 Heifer x Hereford

……..

b) Outline **two** characteristics of livestock that are used in mass selection. (1mk)

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6. State **four** management practices that would ensure maximum harvest of fish from a fish pond. (2mks)

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7. Distinguish between crutching and ringing as used in livestock production. (1mk)

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8. Give **four** reasons why young Lambs should be docked (2mks)

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9. a) State **three** disadvantages of natural incubation in poultry production (1½mks)

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b) Why is it necessary to supplement domestic poultry diet with grit. (½mk)

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10. Name **four** properties of a good vaccine (2mks)

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11. State **four** factors considered when formulating a livestock ration. (2mks)

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12. Name **two** Larval developmental stages of liver fluke that occur outside the intermediate host. (1mk)

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13. List **four** methods of preserving fish after harvesting. (2mks)

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14. Mention **three** ways that indigenous livestock farmers use to improve their cattle. (1½mks)

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15. Differentiate between

i) Gilt and Sow (1mk)

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ii) Marking gauge and mortise gauge. (1mk)

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16. Outline **three** possible causes of damage to the hide of cattle when the animal. (1½mks)

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17. Highlight **three** functions of ventilation in an animal house. (1½mks)

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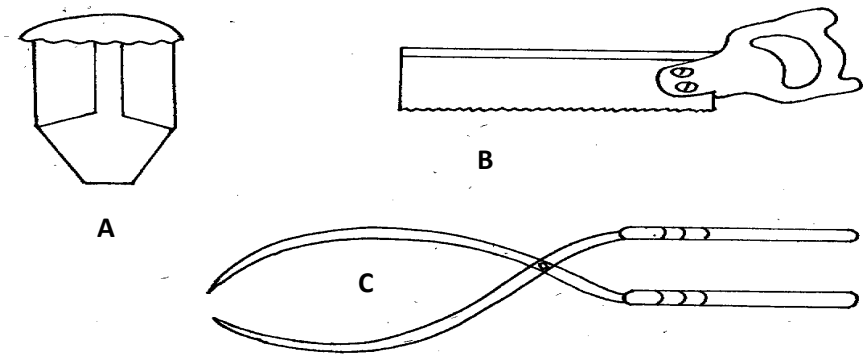
18. State **four** factors that determine the power output in an animal. (2mks)

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SECTION B (20MARKS)

Answer All the questions in this section in the spaces provided.

19. The diagram below represents farm tools.



a) Identify the tools labelled **A** and **B** (1mk)

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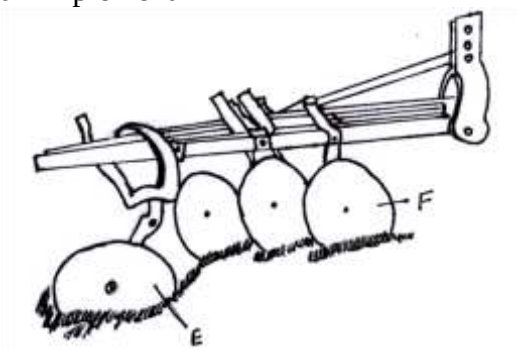
b) Give **one** use of each of the tools mentioned in (i) above (2mks)

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c) Give the **two** maintenance practices which should be carried out on tool **C** (2mks)

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20. The diagram below represents an implement



a) Identify the implement. (1mk)

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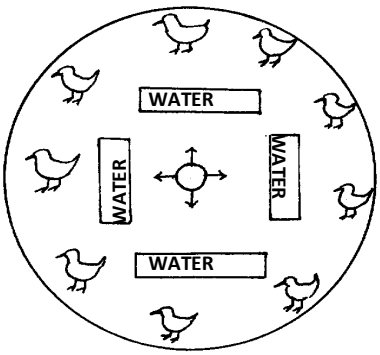
b) Name the parts labeled E and F and give one function of each. (2mks)

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c) State **four** maintenance practices carried out on the implement shown in the diagram. (2mks)

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21. Study the diagram below and answer the questions that follow.



a) Name the structure illustrated above. (1mk)

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b) Why should structure be round and not rectangular or square shaped. (1mk)

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c) Describe the heat situation in the structure. (1mk)

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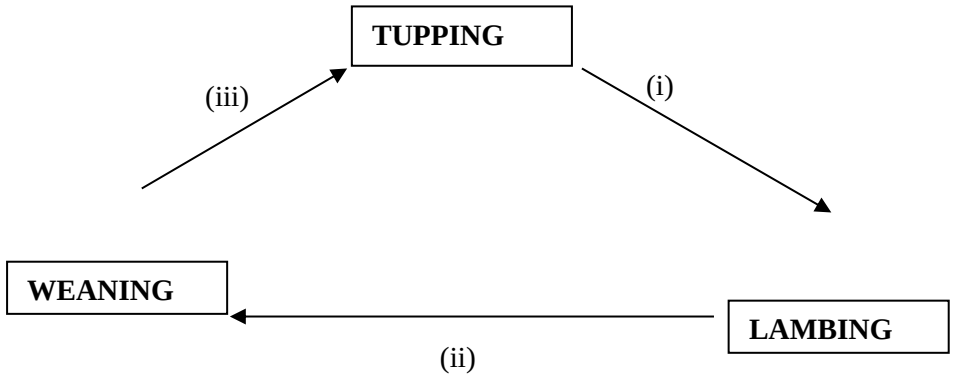
d) Give **one** reason to support your answer in (iii) above. (1mk)

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e) Why is saw dust not suitable for use as litter in the structure. (1mk)

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22. Below is a breeding cycle of a ewe in relation to the feeding regime accompanying it. Use it to answer the following questions.



a) Name the management practice represented by (i),(ii) and (iii) (3mks)

i)……..……

ii)……..……

iii)……

b) Give the importance of practice (i) (3mks)

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SECTION C (40MARKS)

Answer any two questions from this section in the spaces provided

23. a) Five diseases of internal parasites attack in livestock. (10mks)

b) Explain the factors to consider when planning a farm layout. (10mks)

24. a) Outline **ten** management practices a farmer should carry out to maintain good healthy in a herd of cattle. (10mks)

b) Discuss the management of layers in a deep litter system. (10mks)

25. a) Describe **five** design requirement of a calf pen. (10mks)

b) Describe Milk Fever disease under the following sub headings.

i) Animals affected (2mks)

ii) Symptoms (5mks)

iii) Control and treatment (3mks)

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MOCK 1

NAME …… ADM NO……

CLASS…….. DATE ……..... SIGN …….
443/2
AGRICULTURE
PAPER 2
2 HOURS

KCSE MOCK 1
AGRICULTURE
Paper 2
2 Hours.

INSTRUCTIONS TO CANDIDATES

a) Write your name, admission number and class 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** question in section **A** and **B.***
*e) Answer any **two** questions in section **C.***
f) All answers should be written in the spaces provided.
*g) **This paper consists of 14 printed pages.***
*h) **Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.***
*i) **Candidates must answer all the questions in English**.*

For Examiner's Use Only

SECTION	Question	Maximum Score	Candidate's Score
A	1 – 18	30	
B	19 – 22	20	
C		20	
		20	
TOTAL SCORE		90	

SECTION A (30 marks)

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

1. Name any **two** dairy cattle breeds reared in Kenya. (1mk)

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2. List **four** materials that can be used in constructing a Kenya Top Bar Hive. (2mks)

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3. a) What is a zoonotic disease? (½mk)

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   b) Give **one** example of zoonotic disease. (½mk)

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4. a) State **four** factors affecting feed digestibility in livestock. (2mks)

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   b) State **two** functions of crop in poultry digestive system. (1mk)

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5. Give **three** limitations of using solar power on the farm. (1½mks)

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6. State **three** reasons for carrying out egg candling before incubation. (1½mks)

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7. State **two** functions of a queen bee in a colony. (1mk)

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

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9. State **two** advantages of natural calf rearing. (1mk)

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10. Distinguish between each of the following terms as used in livestock rearing practices.

a) Steaming up and flushing. (2mks)

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b) Kindling and farrowing. (2mks)

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11. Give **four** reason of using litter in a deep litter poultry rearing system. (2mks)

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12. Give **four** factors considered when sitting a fish pond in a farm. (2mks)

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13. State **four** reasons for castrating male kids not required for breeding in a farm. (2mks)

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14. Mention **four** physical characteristics of exotic beef cattle breeds. (2mks)

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15. State **four** reasons that necessitate handling of livestock in the farm. (2mks)

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16. List **three** factors that influence the strength of concrete. (1½mks)

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17. Name **three** routes through which vaccines can be administered in livestock. (1½mks)

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18. Name **four** ways of increasing ploughing depth of the disc plough. (2mks)

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SECTION B (20 Marks)

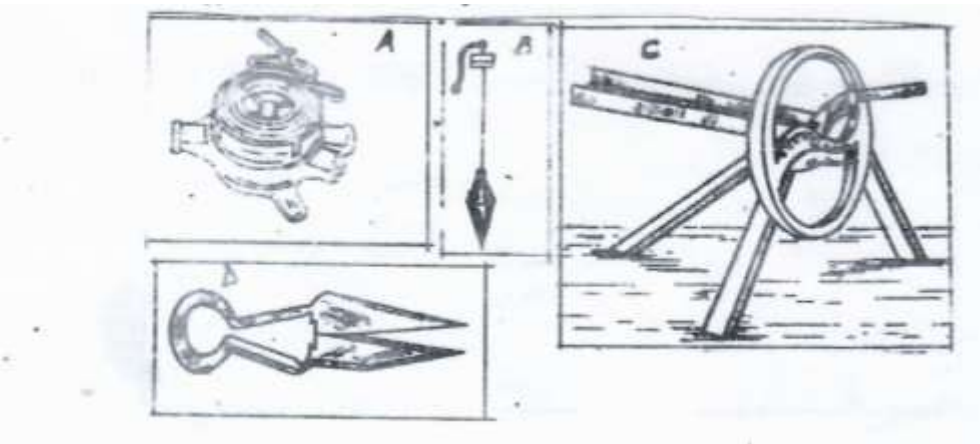
Answer **all** the questions in the spaces provided.

19. a) Using a Pearson's square, Calculate how much of wheat (35% D.C.P) would be mixed with sunflower seedcake (10% DCP) to come up with duck mash (20 % DCP) on a ration weighing 200kg. (show your working) (4mks)

b) Apart from the Pearson's square method, **Name** the other method used in livestock feed computation. (1mk)

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20. The diagrams below represent some farm tools and equipment. Study them carefully and answer the questions that follow.



a) Identify the tools labeled A and B. (2mks)

A ……

B ……

b) State **one** use of each of the tools labeled C and D. (2mks)

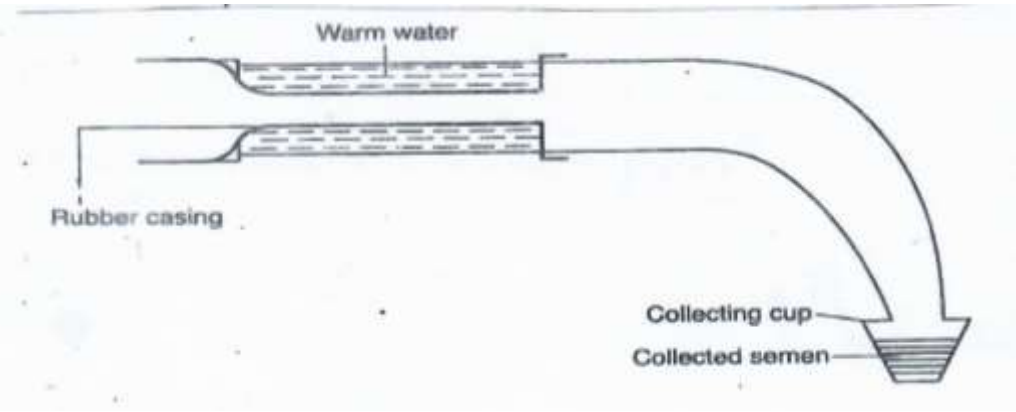
C ……

D ……

c) Explain **one** maintenance practice carried out on tool D. (1mk)

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21. The diagram below shows livestock production equipment. Study it and answer the questions that follow.



a) Identify the equipment. (1mk)

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b) What is the importance of the warm water in the equipment. (1mk)

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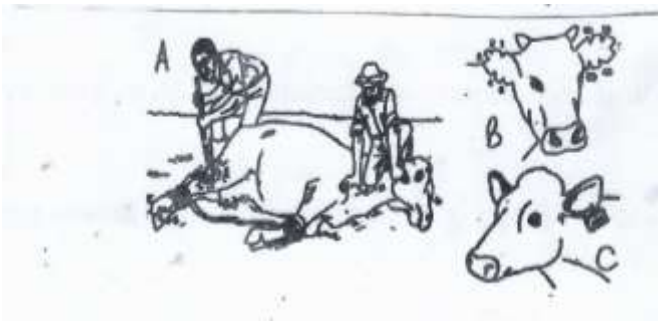
b) Describe the procedure followed when using the equipment in collecting semen. (3mks)

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22. The diagram below shows various methods of a **practice** in livestock production.



a) Name the practice. (1mk)

…….

b) Name the methods A, B, and C (3mks)

A …….....

B ……

C ……..

c) State **one** disadvantages of method A. (1mk)

…….

SECTION C (40 Marks)

Answer any **two** questions from this section in the spaces provided after question **25**;

23. a) State **five** signs of parturition in a cow. (5mks)
.

b) State **five** control measures of Round worms *(Ascaris lumbricoides*) in livestock. (5mks)

c) Describe Coccidiosis disease under the following sub-headings.

i. Animals attacked. (2mks)

ii. Symptoms of attack. (5mks)

iii. Control (3mks)

24. a) Outline **five** factors that contribute to the distribution of livestock in Kenya. (5mks)

b) Describe **five** maintenance practices carried out on a rotary mower . (5mks)

c) Discuss **five** factors affecting milk composition in livestock production. (10mks)

25. a) Describe the artificial rearing of layers chick from one day up to the end of brooding. (10mks)

b) Outline the uses of fences in the farm. (10mks)

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POST MOCK 1

Name…….Index No……Class…….

Sign:…….

443/2

AGRICULTURE

PAPER 2

2 Hours

INSTRUCTIONS TO THE CANDIDATES

-Write your name, admission number in the space provided above

-This paper consists of three sections: A, B and C. Answer all questions in sections A and B.

-Answer any two questions from section C

-Answers to all questions must be written in the spaces provided in this booklet.

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1-17	**30**	
B	18-20	**20**	
C	21-23	**20**	
		20	
TOTAL		90	

SECTION A (30 Marks)

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

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.

1. Name the camel breed with two humps. (1 mark)

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2. List four disadvantages of animal drawn implements. (2 marks)

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3. Name the vectors for each of the following livestock diseases. (2 marks)

a) East coast fever……
b) Rift valley fever……...
c) Trypanosomiasis…….
d) Nairobi sheep disease……...

4. Give four factors considered when selecting a site for fish pond. (2 marks)

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5.List four implements that can be connected to the power take off shaft (PTO) of a Tractor. (2 marks)

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6.State two methods of increasing the depth of penetration of a disc harrow. (2 marks)

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7. (a) Name the tools used in (2 marks)

(i) Cutting curves on thin wood……

(ii)Measuring the inner diameter of a circular object/surface……..

(iii)Cutting thin sheets of metal……

(iv)Tightening wires during fencing…….

b) State two care and maintenance practices of masonry tools and equipment. (1 mark)

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8. State four pre-disposing factors of mastitis disease in cattle. (2 marks)

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9. Outline four factors which would be considered when culling layers. (2 marks)

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10. Give three reasons for choosing corrugated iron sheets in roofing of farm stores instead of tiles. (3 marks)

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11. What is the purpose of fixing a ring around nostrils of a bull. (1 mark)

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12. State one use of each of the following parts found in a tractor.

(a) Carburetor…… (1 mark)

(b) Spark plug …… (1 mark)

13. Name the mineral whose deficiency symptom is Grass tetany in livestock. (½ mark)

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14. Give three post-milking activities in dairy cattle. (1½ marks)

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

Vaccine ……..

(i) …….

(ii) …….

16. State the role of the following hormones in livestock production. (2 marks)

Prolactin…….

Oxytocin ……

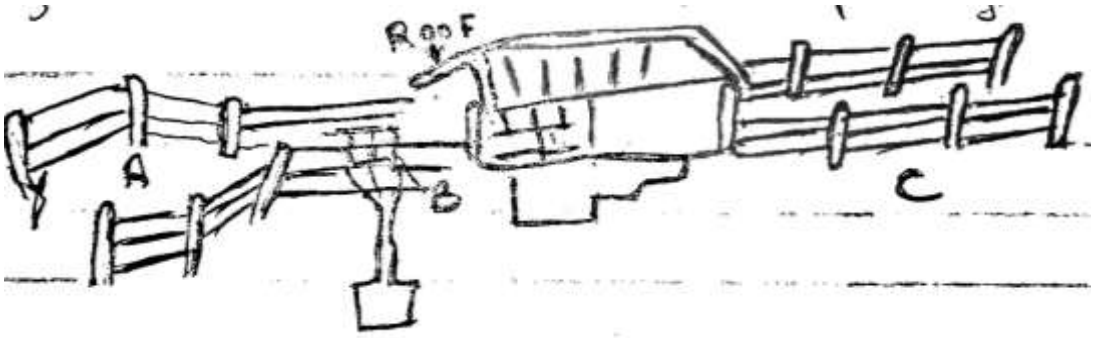
17. Name one parasite of bees. (½ mark)

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SECTION B (20 Marks)

Answer all the questions from this section.

18.Diagram below show a plunge dip.



a) Using a arrow on the diagram show the movement of cattle (½mark)

b) State one use of parts A, B and C (3marks)

A……

B……

C……

c) State two precautions a farmer should take on dip to ensure effective dipping (2marks)

(i)……

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ii)……

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(d). State two uses of the roof of the dip (2marks)

(i)……

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(ii)……

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b) State three disadvantages of a plunge dip (3marks)

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19a) i) Identify the tools below (1mark)

X ……..

Y …….

ii) State the use of tools x and y (2marks)

X

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Y

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iii) Explain two maintenance practices carried on tool X (2marks)

i)……

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ii)……

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b) Name the tools used in conjunction of following tools (2marks)

i. Trocar

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ii. Hypodermic needle

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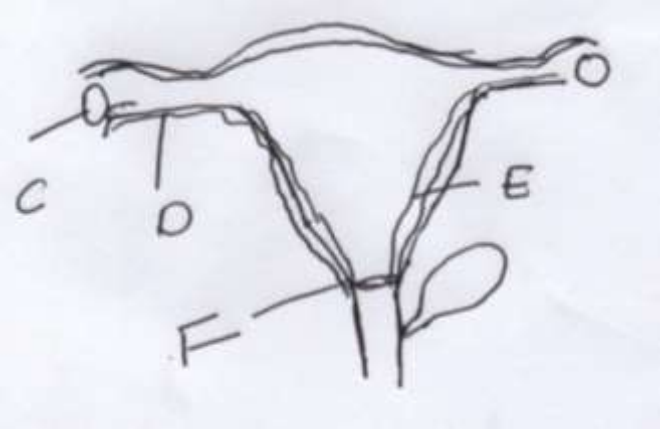
iii. Wood chisel

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iv. Star headed screw

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20a) Diagram below show reproductive system of a female cow



i. Name the part marked (1mark)

D

……

F

……

ii. State the function of parts marked (1mark)

C

……

E

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b) At what stage should a gilt be mated? (½mark)

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SECTION C (40 Marks)

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

21.(a)Describe five pre-disposing factor of livestock diseases. (5marks)

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(c) Describe six mechanical methods of controlling ticks (6 marks)

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(c)Describe the factors that affect milk composition of a cow (9 marks)

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22.(a)(i) Explain five advantages of animal power. (5marks)

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(ii)Describe three operational differences between disc plough and mouldboard plough.

(6 marks)

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(b)Describe the use of various materials in construction of a Kenya to hive (4 marks)

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(c) Outline the care and maintenance of a tractor water cooling system. (5marks)

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23.(a)(i) State four physiological body processes considered when assessing on animal health.

(4marks)

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(ii)Explain nine factors considered when selecting a breeding stock. (9marks)

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(b)Describe Brucellosis disease in Cattle under the following sub-headings.

(i)the cause of the disease (1mark)

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(ii)Symptoms of the disease (4marks)

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(iii)Control measures (2marks)

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