

Name..... Index No...../.....
 School..... Candidates Signature.....
 Date.....

443/2
AGRICULTURE
 Paper 2
 August/September 2022
Time; 2 Hours

**MANGU HIGH MOCK
 EXAMINATIONS - 2022**
Kenya Certificate of Secondary Education (K.C.S.E)

INSTRUCTIONS TO CANDIDATES

- Write your name and Index Number in the spaces provided above.
- Sign and write date of examination in the spaces provided above.
- Answer **ALL** questions in the spaces provided.
- Mathematical tables and silent electronic calculators may be used.
- All workings **MUST** be clearly shown where necessary.

For Examiners use only.

Question	Maximum Score	Candidates Score

*This paper consists of 10 printed pages
 Candidates should check the question paper to ensure that all the
 Papers are printed as indicated and no questions are missing*

SECTION A (30 MARKS)

1. Name two dual purpose sheep breed (1mark)

1)..... 2.....

2. State two importance of livestock (1mk)

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.....
.....

3. Name two methods used in selection of livestock (1mk)

1. 2.

4. Define the term breech presentation as used in livestock breeding (1mk)

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5. State two disadvantages of embryo transplant (1mk)

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6. State four factors that may predispose an animal to certain diseases. (2 mks)

(a).....
.....

(b).....
.....

(c).....
.....

(d).....
.....

7. State four effects of parasites on livestock (2 mks)

(a).....
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(b).....
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©.....
.....

(d).....
.....

8. State two mechanical methods of controlling ticks in livestock (1mk)

(a).....

(b).....

9. Name two livestock diseases that are caused by bacteria (1mk)

ii) ii).....

10. State four methods of maintaining good health in livestock (2mks)

(a).....

(b).....

(c).....

(d).....

11. State two chemical methods of controlling bloat (1mk)

(a).....

(b).....

12. Name two sources of water in the body of an animal (1mk)

(a).....

(b).....

13. State two functions of reticulum (1mk)

(a).....

(b).....

14. Name the part of the digestive system of a non-ruminant animal where cellulose is broken down (½ mk)
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(b) Name the part of the digestive system of poultry where insoluble grit is found (½ mk)

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(c) State the use of insoluble grit in the digestive system of poultry (1mk)

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15. State two reasons for docking sheep (1mk)

(a).....

(b).....

16. Differentiate between live virulent vaccines and live attenuated vaccine (1mk)

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17. Give four ways of stimulating milk let down in dairy cow (2mks)

(a).....

b).....

c).....

d).....

18. Name two lubricant used in a tractor engine (1mk)

(a).....

(b).....

19. List two disadvantages of animal drawn implements (1mk)

(a).....

(b).....

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

(a).....

(b).....

©.....

(d).....

21. State **four** reasons for proper care and maintenance of farm tools and equipment (2mks)

(a).....

(b).....

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(d).....
22. State two field conditions under which a fork jembe would be more suitable for use than a jembe (1mk)

(a).....
(b).....

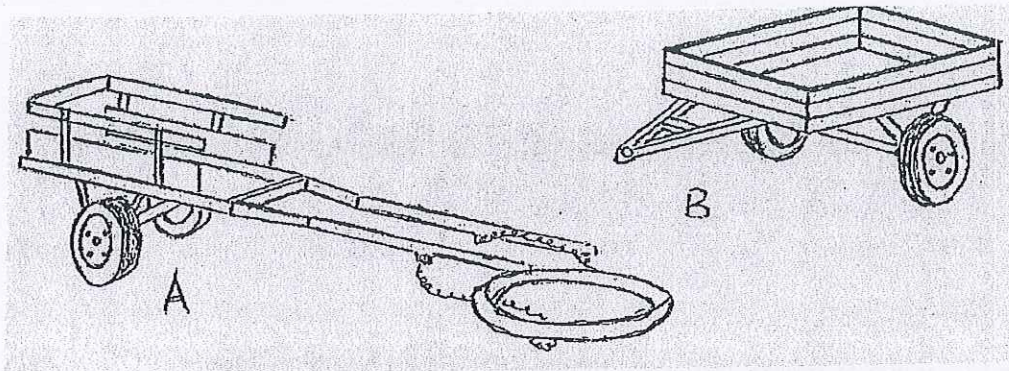
23. State two disadvantages of a plunge dip (1mk)

(a).....
(b).....

SECTION B (20 MARKS)

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

24. Diagrams A and B below shows farm implements



a) Give the source of power used in operating each of the implements (1mk)

A.....
B.....

(b) State the means by which each of the above implements is attached to its source of power. (1mk)

A.....
B.....

(c) Give four advantages of implements A over implements B (2mks)

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.....

(c) State four maintenance practices for implement A. (2mks)

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25. Below is a list of livestock feeds

- E.....Dry roughage
- F.....Dairy meal
- G.....Maize meal
- H.....Fish meal

a). (i) Classify the feed stuffs according to their nutritive value (1 ½ mks)

E.....
F.....
G.....

(ii) Why would cattle benefit more than pigs when fed on dry maize stalks (1mk)

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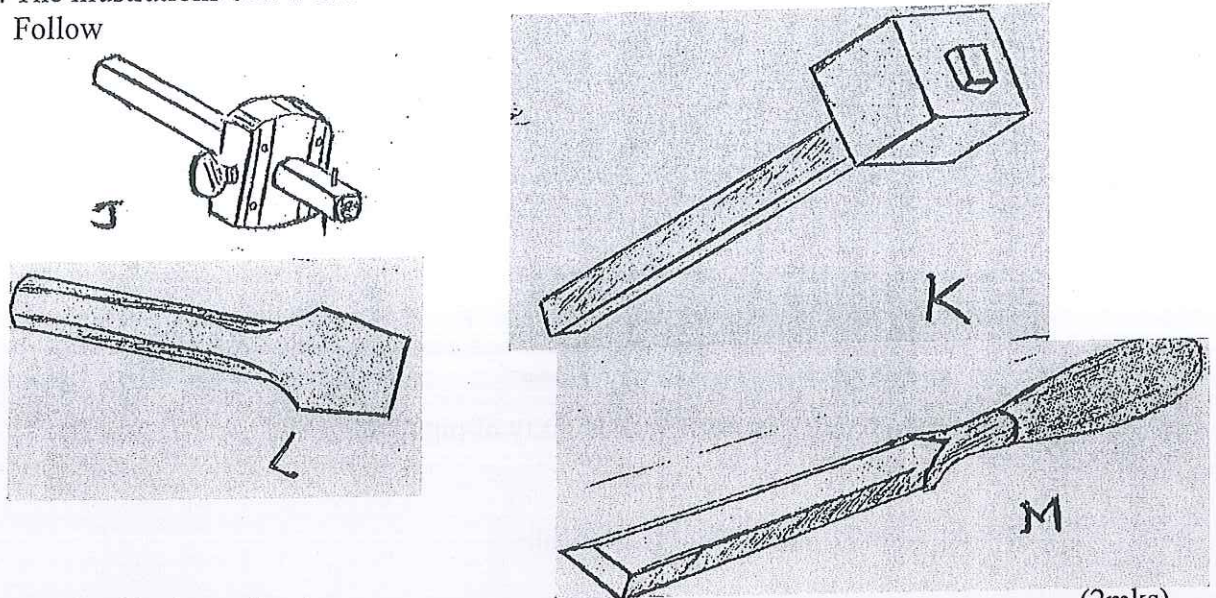
iii) State two ways of increasing cattle intake of the feed labeled E(1mk)

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(b) If the feed H contains 7% digestible crude proteins (D.E.P) and C contains 62%DCP.
Calculate the amount of each feedstuff in kilogrammes required to prepare 200kg of chick
mash containing 20% DCP (use the pearson square method) (2mks)

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26. The illustrations below shows some farm tools. Study them and answer the questions that Follow



(a) Identify the tools

(2mks)

J..... K.....
 L..... M.....

(b) Name a tool that would be needed to be able to use the tool labeled L

(1/2 mk)

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(c) State two recommended maintenance practices that each of the tools labeled L and M may Require after a period of use

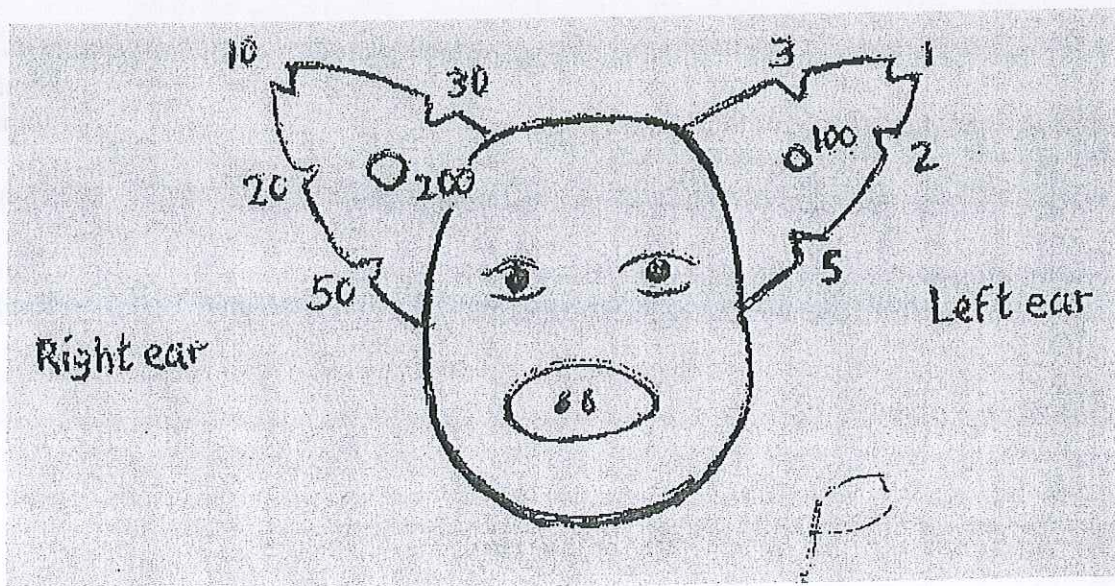
(2 mks)

M.....

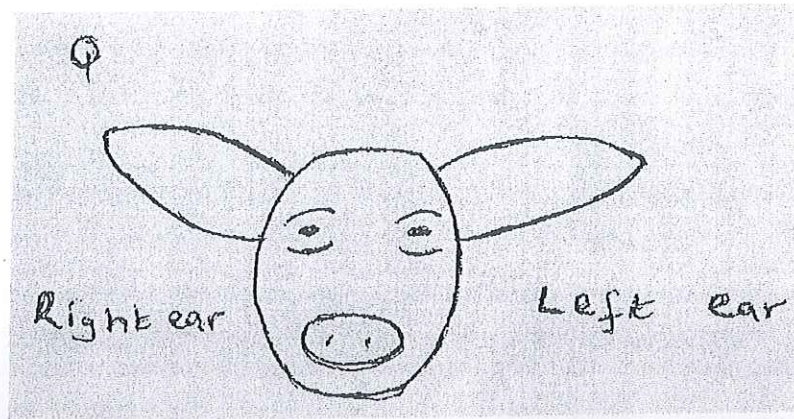
L.....

27. The illustrations P below show a method of identifying pigs. Study the diagram and answer the questions that follow

Diagram P



On the diagram Q provided below draw notch marks to indicate a pig number 168 (2mks)



(a) On the above diagram show the identity of pig number 108 (2mks)

(b) Give four other methods of identification (2mks)

SECTION C. (40 MARKS)

Answer any two questions in this section in the spaces provided at the end of the section.

28. (a) State the functions of the following parts of a mouldboard plough

- (i) Beam (2mks)
- (ii) Share (2mks)
- (iii) mould board (1mk)
- (iv) Disc coulter (2 mk)
- (v) Landside (2mks)
- (vi) Depth Wheel (1mk)

(b) State the operational differences between a mouldboard and a disc plough (5mks)

(c) Describe five advantages of a live fence (5mks)

29. (a) Describe the artificial rearing of layer chicks from day old upto the end of brooding (8mks)

(b) Describe the characteristics of a poor layer, which should be considered during culling (6mks)

(c) Describe the life cycle of three host tick (6mks)

30(a) Describe the procedure followed when constructing a barbed wire fence (8mks)

(b) Describe the control measures of diseases in livestock (7mks)

(c) Outline the differences between a petrol engine and a diesel engine (5mks)