

MANGU MOCK TRIAL 3

AGRICULTURE

443/2

PAPER 2

TIME: 2 HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the spaces provided.
2. Sign and write the date of the examination in the spaces provided.
3. This paper consists of three sections A, B and C
4. Answer all questions in Section A and B in the spaces provided
5. Answer only two questions in section C in the spaces provided after question 24.

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAX.SCORE	CANDIDATE SCORE
A	1-18	30	
B	19-22	20	
C	23	20	
	24	20	
	25	20	
TOTAL SCORE		90	

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.

1) State four qualities of colostrums which make it suitable for feeding newly born calves. **(2 marks)**

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2) State four advantages of using concrete in building farm structures **(2 marks)**

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3) Give two functions of a footbath in a plunge cattle dip **(1 mark)**

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4) Give two maintenance practices carried out on a tractor trailer. **(1 mark)**

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5) State four factors that would affect the digestibility in livestock. **(2 marks)**

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6) State four roles played by the engine oil in a tractor engine. **(2 marks)**

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7) Name four diseases transmitted by ticks. (2 marks)

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8) State four advantages of using Biogas as a source of power in the farm. (2 marks)

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9) State four ways in which incubator should be managed for higher hatchability. (2 marks)

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10) State four factors that would determine the use of a jembe instead of a disc plough in primary cultivation. (2 marks)

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11) Give four management practices that should be carried out during mating season in sheep. (2 marks)

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12) State the difference between a vector and intermediate host in livestock production. **(1 mark)**

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13) Give two factors that contribute to the depreciation of farm equipment. **(1 mark)**

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14) Give four microbial activities that take place in the Rumen of a cow. **(2 marks)**

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15) State four factors that should be considered while **siting the apiary** for the bees. **(2 marks)**

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16) State four factors that may influence the pulse rate of a sheep. **(2 marks)**

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17) Give two reasons for taking birth weight of piglets. **(1 mark)**

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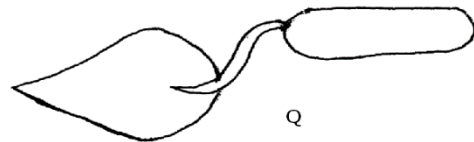
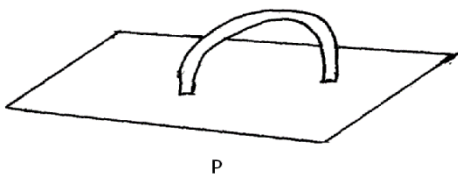
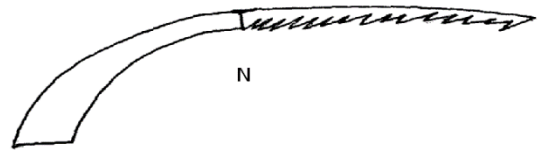
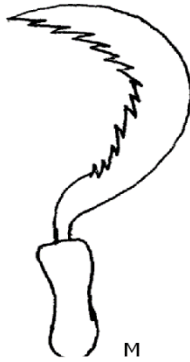
18) Give two reasons for holding animals for a short period in the outlet crush after dipping
(1 mark)

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SECTION B (20 MARKS)

Answer all the questions in this section in the spaces provided. All working must be shown clearly where necessary

19) The diagrams B, C, D, E illustrate some structures used by a bee farmer. Use them to answer the questions that follow.



a) Identify the tools M, N, P and Q. (2 marks)

M

N

P

Q

b) Give the use of each of the tools named in (a) above.

(2 marks)

M

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N

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P

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Q

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c) State two maintenance practices on the tool marked M.

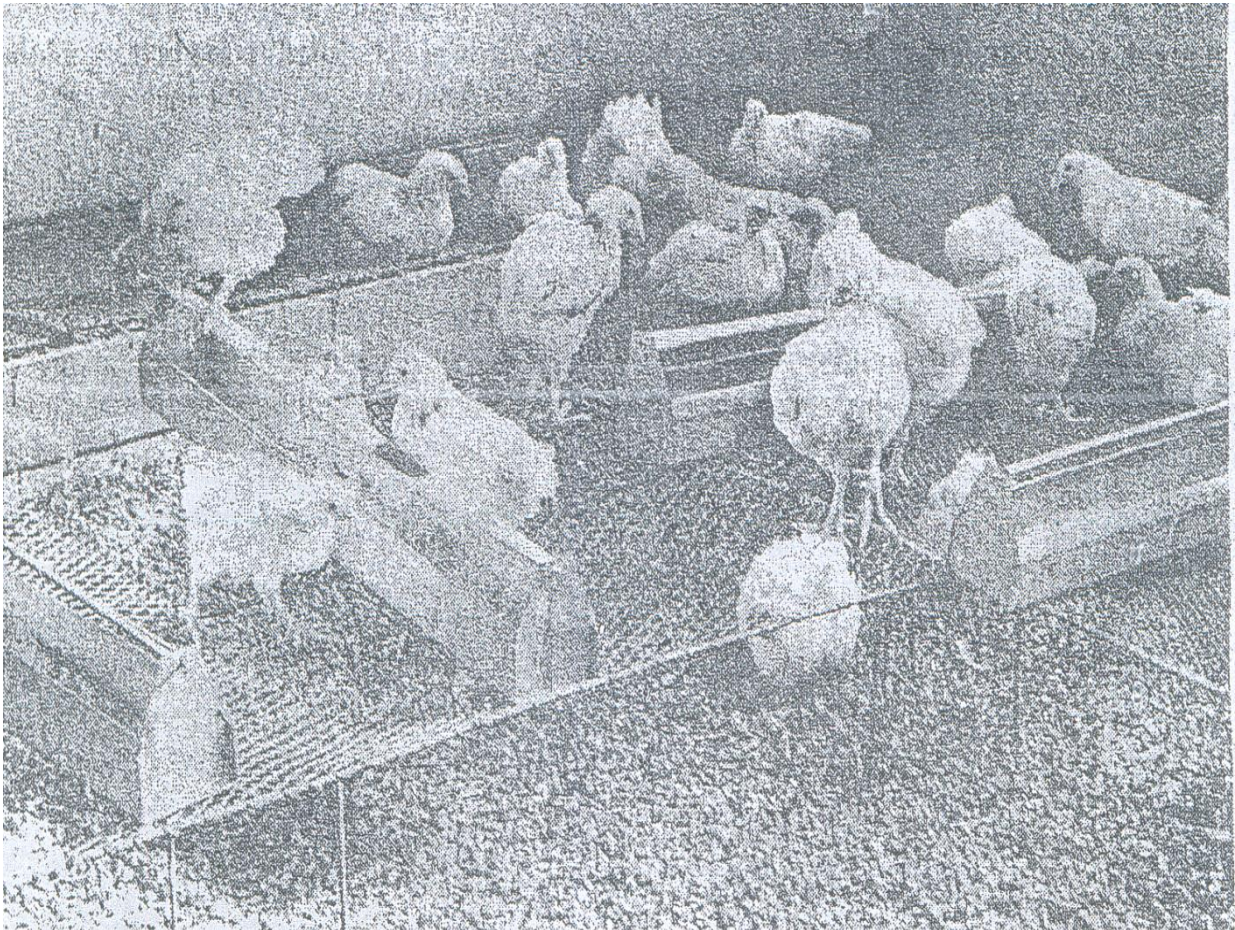
(2 marks)

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20) The diagram below shows a poultry rearing system. Study it carefully and answer the questions that follow.



Identify the poultry rearing system.

(1 mark)

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List two advantages of this system of rearing layers

(2 mks)

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How is suffocation and death of chicks avoided in such a system?

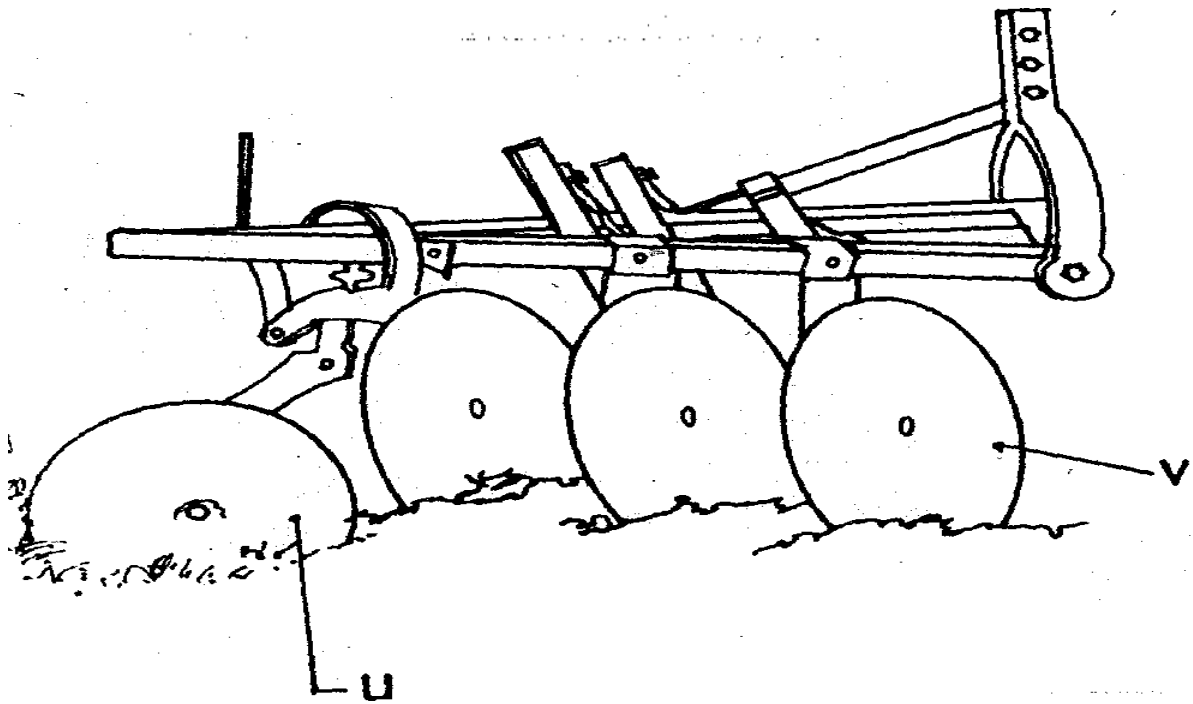
(2 mks)

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21) The diagram below represents an implement.



Identify the implement.

(1 mark)

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Name the parts labeled U and V and give one function of each.

(2 marks)

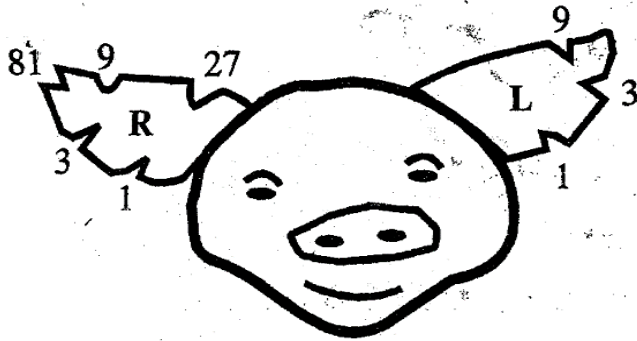
U

V

State two ways of adjusting the depth of ploughing using the implement. (2 marks)

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22) Study the diagram below carefully and answer the questions that follow.



Key:
R Litter number
L Individual number

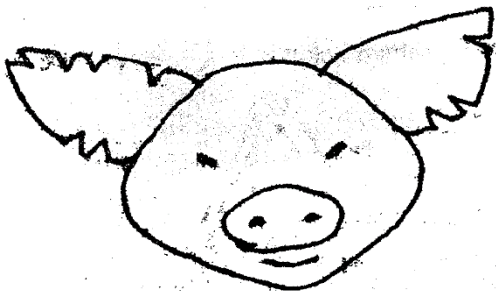
a) Name the livestock routine practice illustrated above. (1 mark)

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Name one tool that may be used in carrying out the operation in (a) above. (1 mark)

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c) Study the diagram below and then give an interpretation of the individual number and litter number of the animal. (2 marks)



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SECTION C (40 MARKS)

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

- 23. a)** Describe the procedure of harvesting honey from a top bar hive. **(9 marks)**
- b)** Describe the extraction of honey from combs using the heat method. **(6 marks)**
- c) Outline** the reasons why bees swarm. **(5 marks)**
- 24. Describe** the production of beef cattle from time of selection of breeding gestation to calving **(20 marks)**
- 25. a) Describe** the life cycle of two host tick **(7 marks)**
- b) Explain** the measures used to control external parasites in livestock production. **(6 marks)**
- c) Outline** the factors considered in ensuring efficient working by oxen. **(7 marks)**