

Name: Index Number.....

School: Candidate's sign

Date: Class.....

443/2

AGRICULTURE

PAPER 2

December 2021

TIME: 2 HOURS

BUNAMFAN CLUSTER EXAMINATION 2021

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

AGRICULTURE

Paper 2

Time: 2 hours

INSTRUCTIONS TO CANDIDATES:

- Write your **name, index number, school 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 paper.

For Examiner's Use Only

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-18	30	
B	19-22	20	
C		20	
		20	
TOTAL		90	

This paper consists of 12 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing

SECTION A : 30 MARKS

Answer all questions in this section

1. Name **four** tools that are used when laying concrete blocks during construction of a wall. (2 marks)

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2. Why is it necessary to have guard rails in a farrowing pen? (1 mark)

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3. Give **two** reasons for having a footbath in a cattle dip. (1 mark)

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4. Distinguish between crutching and ringing in sheep management. (2 marks)

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5. State **four** signs that indicate that a doe is about to kindle. (2 marks)

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6. Name **two** developmental stages of a liverfluke (*Fasciola sp.*) which occur in the fresh water snail (*Limnaea sp.*) (1 mark)

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7. State **four** uses of a spring tine harrow. (2 marks)

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8. State **four** signs of mite attack in poultry. (2 marks)

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9. State **three** advantages of natural feeding in calf rearing. (1½ marks)

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10. Give **three** ways in which infectious diseases can spread from one livestock to another within a farm. (1½ marks)

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11. State **four** reasons for castration in pig production. (2 marks)

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12. State **four** characteristics of roughage livestock feeds. (2 marks)

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13. State **two** functions of the crop in poultry digestive system. (1 mark)

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14. State **four** roles of worker bees in a colony. (2 marks)

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15. Give **four** reasons for controlling livestock diseases. (2 marks)

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16. State **three** ways of caponisation in poultry. (1½ marks)

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17. State **four** advantages of using animals instead of tractors as a source of power on the farm. (2 marks)

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18 . Name **one** livestock disease that is transmitted by each of the following parasites:

(a) blue ticks; (½ marks)

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(b) Brown ear ticks; (½ marks)

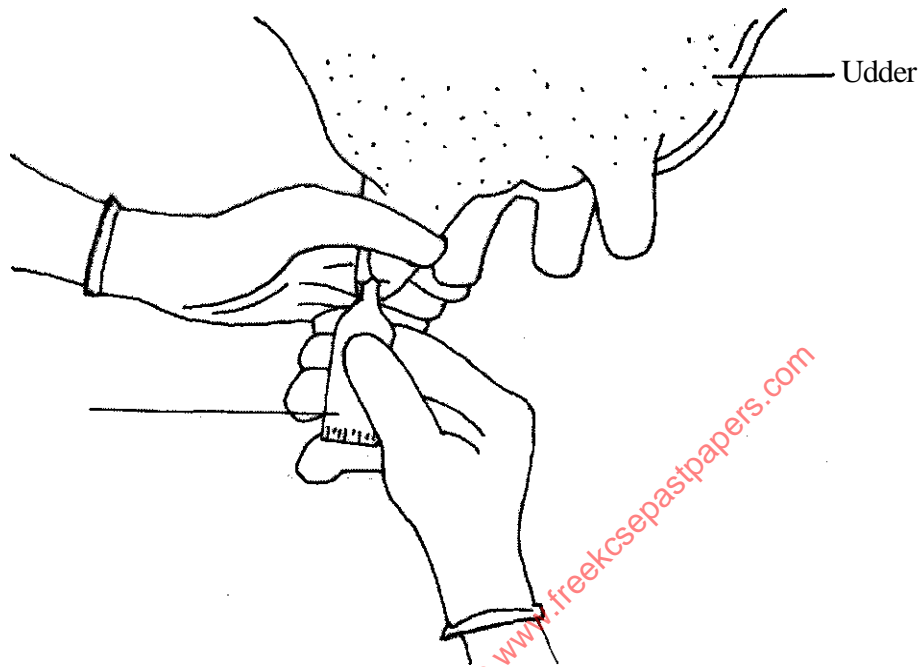
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(c) tsetse flies. (½ marks)

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SECTION B: 20 MARKS

19. The illustration below shows a practice carried out to prevent mastitis infection in a dairy cow.



(a) Identify the practice. (1 marks)

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(b) At what stage is the practice carried out? (1 marks)

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(c) State **two** other practices that are carried out on the udder to prevent mastitis infection. (2 marks)

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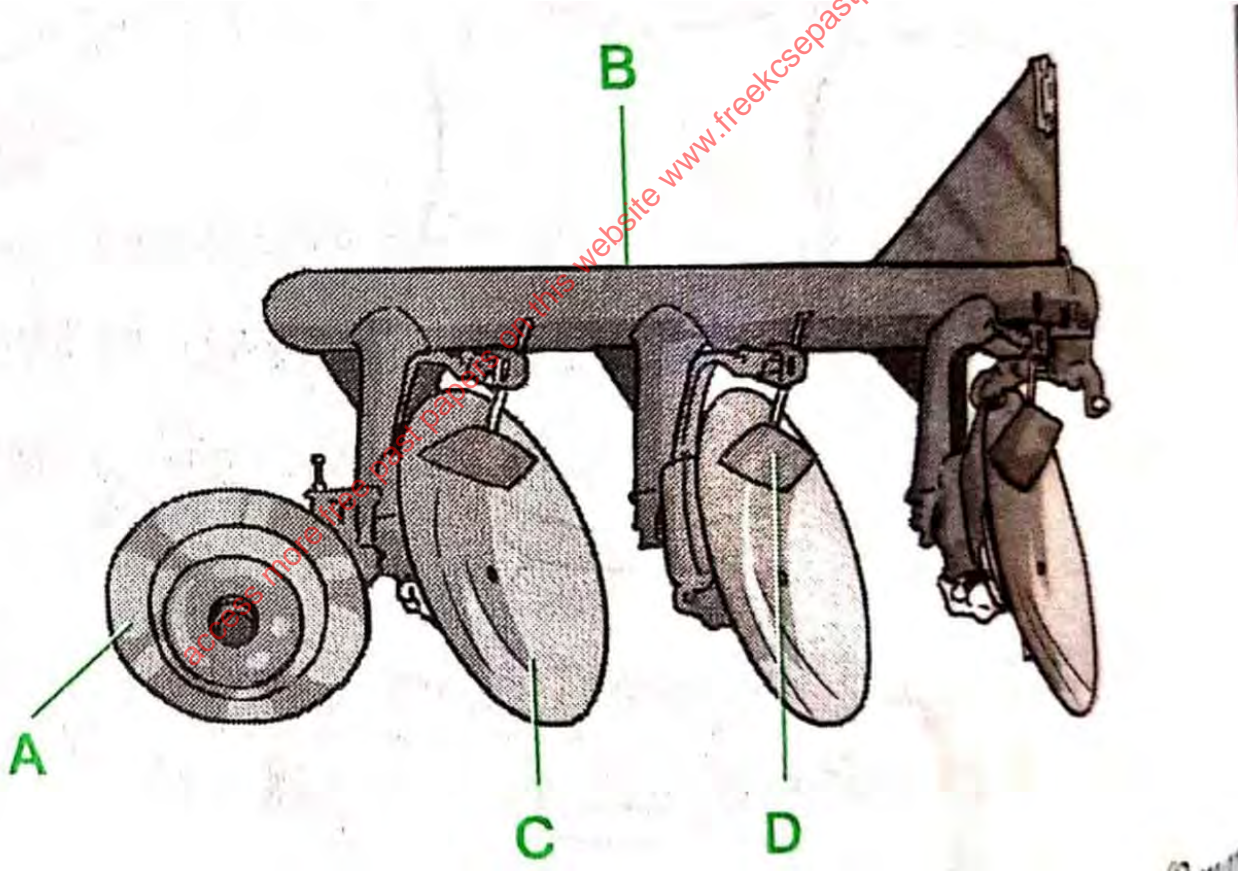
d) Name the equipment labelled X in the diagram. (1mark)

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20. A dairy farmer is required to prepare 200 kg of dairy meal containing 20% Digestible Crude Protein (D.C.P.). Using the Pearson's Square Method, calculate the quantity of soya bean (40% D.C.P.) and rice (16% D.C.P.) the farmer requires for the dairy meal. (5 marks)

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21. The following diagram shows a disc plough. Use it to answer the following questions.



a) Name the parts labelled A, B, C and D. (2 marks)

A

B

C.....

D.....

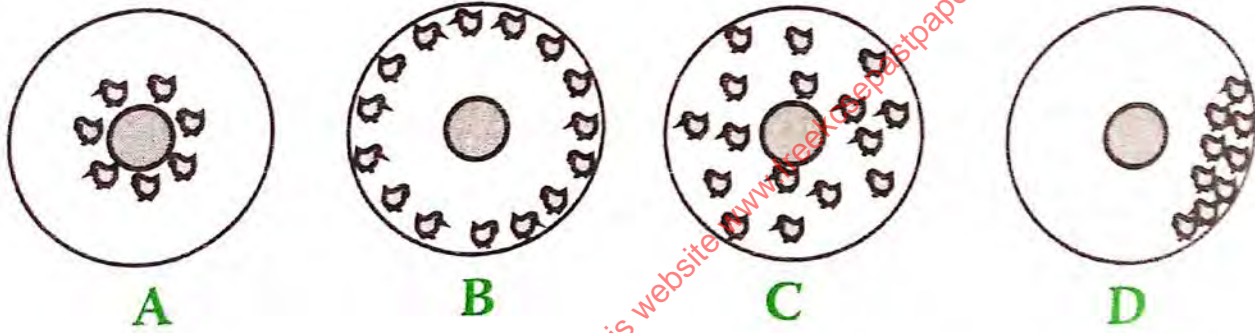
b) Give **one** function of each of the parts labelled **A** and **D**. (2 marks)

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c) Identify the implement. (1 mark)

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22. The following illustrations show the behavior of chicks in a brooder. Study them carefully and answer the questions that follow.



a) Explain the cause of behavior observed in chicks for each of the illustrations labeled A, B and D. (3 marks)

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b) Give a reason for making the brooder wall round in shape. (1 mark)

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

(i) Cause. (1 mark)

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(ii) Symptoms of attack. (4 marks)

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(iii) Control measures of the disease. (4 marks)

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(c) Explain **five** ways in which ticks can be controlled in a livestock farm. (5 marks)

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25. a) Describe ten physical characteristics a poultry farmer would use to identify poor layers from a flock of hens. (10 marks)

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b) i) Outline **three** characteristics of clean milk. (3 marks)

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ii) Explain **seven** factors that affect milk composition in dairy farming. (7 marks)

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