KAPSABET HIGH SCHOOL

AGRICULTURE PAPER 2

443/2

Time: 2 Hours

Name……Index No…… …..

Ccandidate's sign…… Date ……..

2022 TRIAL 1 MAY INTERNAL EXAMINATION

Kenya Certificate of Secondary Education (KCSE)

INSTRUCTIONS TO CANDIDATES

1. Write your name and index 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.

FOR EXAMINER'S USE ONLY

	Questions	Maximum score	Candidate's score
A	01-17	30 marks	
B	18-22	20 marks	
C	23-25	40 marks	
		Total score	

This paper consists of 8 printed pages.
Candidates should check to ensure that all pages are printed as indicated and no questions are missing

SECTION A (30 MARKS)

Answer ALL questions in this section.

1. State four problems associated with nomadic pastoralism method of farming. **(2 marks)**

……

……

2. State one use of the following tools in the farm. **(2 marks)**

a) Spoke shave

……

b) Pipe wrench

……

c) Stock and die

……

d) Wire strainer

……

3. Name one exotic dairy cattle breed in Kenya which produces milk with:

a) Highest butter fat content. **(1 mark)**

……

b) Lowest butter fat content. **(1 mark)**

……

4. Name two dual purpose breeds of dairy cattle reared in Kenya. **(1 mark)**

……

……

5. Name two sources of energy concentrates. **(1 mark)**

……

……

6. Using Pearson's square method, compute a 100kg ration with 20% DCP from sunflower seed cake which contains 10% DCP and simsim seed containing 60% DCP. **(4 marks)**

7. Name three livestock diseases transmitted by ectoparasites. **(1½marks)**

……

……

……

8. Name an intermediate host for the following internal parasites. **(2 marks)**

a) Tapeworms

……

b) Liver flukes

……

9. Give any two reasons for docking in sheep rearing. **(1 mark)**

……

……

10. State two functions of the queen in a beehive. **(1 mark)**

……

……

11. State three maintenance practices carried out on a piggery unit. **(1½ marks)**

……

……

……

12. State four disadvantages of an electrical fence. **(2 marks)**

……

……

……

……

13. State four advantages of using a spray race for controlling parasites. **(2 marks)**

……

……

……

……

14. Give four disadvantages of artificial insemination in livestock production. **(2 marks)**

……

……

……

……

15. Give any four structural requirements that a calf pen should possess. **(2 marks)**

……

……

……

……

16. List two signs of infertility in cows. **(1 mark)**

……

……

17. Give two methods of introducing vaccines to livestock. **(2 marks)**

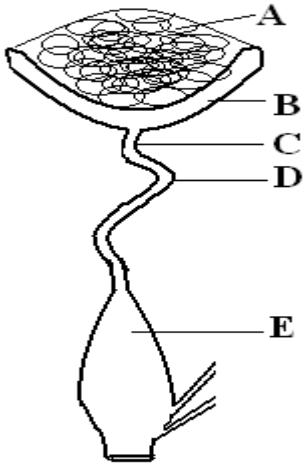
……

……

SECTION B (20 marks)

Answer ALL questions in this section.

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



(i) Name the parts labelled A, B, C, D and E in the diagram. **(2½ marks)**

A……...

B……...

C……...

D……...

E……

(ii) State the function of each part. **(2½ marks)**

A……...

……..

B……...

……..

C……...

……..

D……...

……..

E……

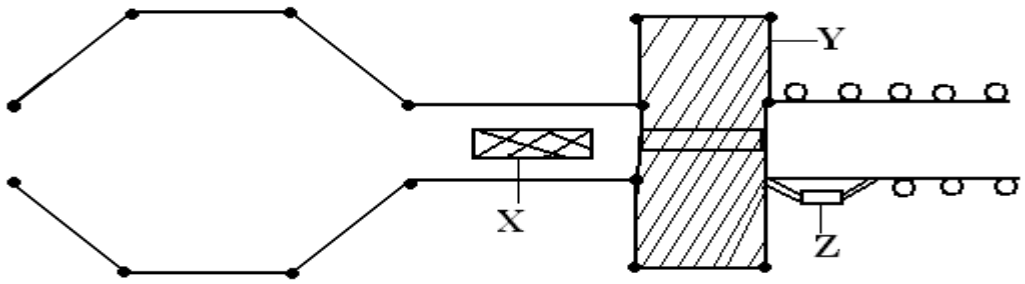
……..

19. Give two reasons why a jersey breed cattle is adapted to arid and semi arid areas. **(2marks)**

……

……

20. The diagram below represents an aerial view of a farm structure. Study it carefully and answer the questions that follow.



a) Identify the structure. **(1 mark)**

……

b) Name the parts labeled X, Y and Z. **(3 marks)**

X……...

Y……...

Z……

c) List two roles of the part labeled Y. **(2 marks)**

……

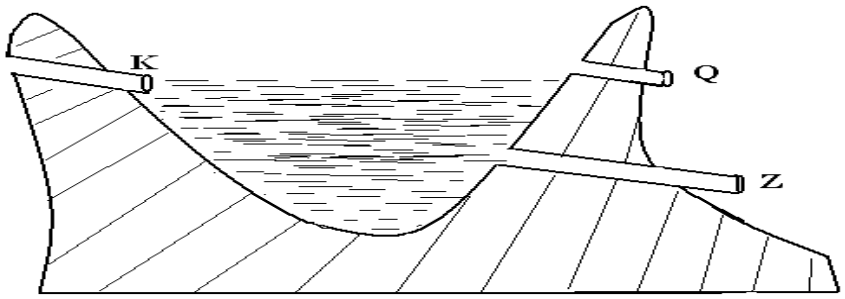
……

21. Give two reasons for carrying out hoof trimming. **(1 mark)**

……

……

22. The illustration below is a farm structure.



a) Identify the structure. **(1 mark)**

……

b) Name the parts labeled K, Q and Z. **(3 marks)**

K……...

Q……..….

Z……

c) Give four maintenance practices carried out on the above structure. **(2 marks)**

……

……

……

……

SECTION C (40 MARKS)

Answer ANY TWO questions in this section

23. a) Give five functions of vitamins in livestock production. **(5 marks)**

b) Describe the importance of colostrum to young animals within the first week of birth. **(10 marks)**

c) Outline five advantages of embryo transplant technology in cattle management. **(5 marks)**

24. a) Mention four methods of water harvesting. **(4 marks)**

b) Describe the different types of micro catchments used in water conservation. **(10 marks)**

c) Explain the importance of micro catchments. **(6 marks)**

25. a) Outline ten factors to consider when selecting gilt for breeding stock. **(10 marks)**

b) Explain the economic importance of parasites to livestock animals. **(10 marks)**

……

……

……

……