

NAME INDEX NUMBER

SIGNATURE

DATE

443/2

AGRICULTURE

PAPER 2

TIME: 2 HRS

JULY/AUGUST 2016

WESTLANDS SUB-COUNTY JOINT EXAMINATION
Kenya Certificate of Secondary Education (K.C.S.E)

AGRICULTURE

Paper 2

JULY/AUGUST 2016

Time: 2 hours

INSTRUCTIONS TO CANDIDATES

- This paper consists of three sections: A, B and C.
- Answer all the questions in Section A and B
- Answer any two questions from Section C.
- All answers must be written in the spaces provided.

FOR EXAMINER'S USE ONLY

Section	Question	Maximum Score	Candidate's Score
A	1 - 21	30	
B	22 - 24	20	
C	25 - 27	20	
		20	
TOTAL SCORE		90	

SECTION A (30 MARKS)

Answer ALL questions in this section in the spaces provided

1. a) Name a breed of dairy animal having the following characteristics; red coat with white markings on the legs, face, tail switch and girth (1mk)
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- b) Name a breed of pig with the following characteristics; black coat with white feet, face and tail switch (1 mk)
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- c) Name one sheep breed which is resistant to foot rot diseases. (1 mark)
-
2. Differentiate between a contagious and an infectious disease (1 mk)
-
-
-
-
3. Name the hormone that is concerned with milk synthesis (½ mk)
-
-
4. Name two qualities of concrete which make it suitable for the construction of farm buildings (1 mk)
-
-
5. A bull gained 100 kg of live weight after eating 400 kg of beef concentrates over a period of time. Calculate its feed conversion ratio (FCR) (1 mk)
-
-
-
-
6. Name two nutritional diseases. (2 mks)
-
-
7. Give two qualities of good wool (1 mk)
-
-

8. Give the name of the act of giving birth in the following animals (2 mks)
- i) Rabbit
-
-
- ii) Goat
-
-
9. State two methods of caponisation in cocks (1 mk)
-
-
10. Mention two ways in which the gizzard is adapted to its function (1 mk)
-
-
11. State four symptoms of anthrax infection in the carcass of a cow (2 mks)
-
-
-
-
12. Name three types of fresh warm water fish reared in Kenya (1½ mks)
-
-
-
-
13. State two characteristics of air cooled engines (1 mk)
-
-
14. Name two feed additives used in livestock production (1 mk)
-
-
15. State two functions of a clutch (1 mk)
-

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16. Give four conditions that would encourage hens to eat eggs in poultry production (2 mks)

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17. Name four structural requirement in a calf pen (2 mks)

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18. State two reasons for washing the udder before milking (1 mk)

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19. State four factors considered when selecting an implement for primary cultivation (2 mks)

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20. State three characteristics of colostrum that make it suitable for new born livestock (1½ mks)

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21. State four categories of farm tools and equipment (2 mks)

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SECTION B: 20 MARKS

Answer all the questions in the spaces provided

22. The illustration below is a structure in a cow. Study it and answer the questions that follow

i) Identify the structure (1 mk)

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ii) Label part A to D (2 mks)

A.....

B.....

C.....

D.....

iii)What is milk letdown? (2 mks)

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iv)List down three factors that may initiate milk letdown in a lactating cow (3 mks)

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23. The diagrams below shows a set of equipment used in livestock management.
Study them and answer the questions that follow

F

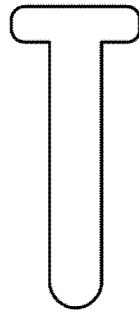
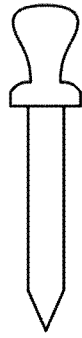
E

a) Identify the equipment labelled E and F (2 mks)

E.....

F.....

b) State the appropriate use of set of equipment illustrated above (1 mk)



c) Describe the appropriate procedure followed when using the equipment (4 mks)

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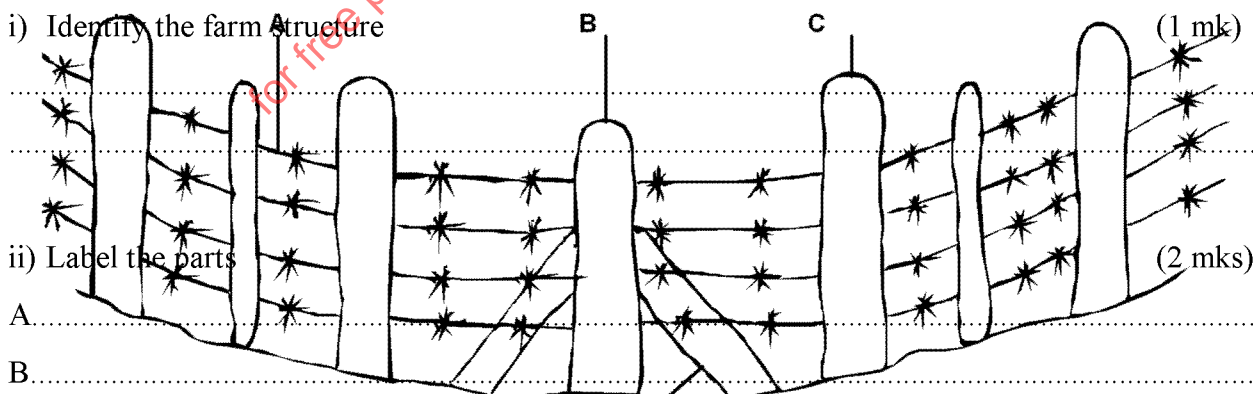
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24. The diagram below represents an important farm structure. Study it and answer the questions that follow.

i) Identify the farm structure



ii) Label the parts

A.....

B.....

C.....

D.....

iii) State two maintenance practices carried out in the structure above. (2 mks)

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SECTION C (40 MKS)

Answer ONLY TWO questions in this section

25. a) Describe seven signs of ill health (14 mks)
b) State six signs of trypanosomiasis (Nagana) disease in livestock (6 mks)
26. a) Describe how a four stroke cycle engine operates (12 mks)
b) Describe the daily maintenance of a tractor (8 mks)
27. a) Describe the general safety precautions a farmer should observe when using and handling farm tools. (6 mks)
b) Outline the various causes of swarming in bees. (8 mks)
c) Highlight six factors that influence the amount of concentrate given to a lactating animal. (6 mks)

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