

NAME.....INDEX NO.....

SCHOOL.....SIGN.....DATE.....

443/2

AGRICULTURE

PAPER 2

TIME: 2 HOURS

SEPTEMBER, 2022

LANET JOINT EVALUATION- LANJET 2022

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

INSTRUCTIONS TO CANDIDATES

- Write your name, school and index number, in the spaces provided above.
- Sign and write the date of the examination in the spaces provided above.
- This paper consists of three sections: A, B and C.
- Answer **all** the questions in section **A** and **B** and **any two** questions from section **C**
- All answers must be written in the spaces provided in this paper

SECTION A (30 MARKS)

1. Name **four** light breeds of poultry. (2mks)

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2. State **two** reasons that would make a farmer prefer to keep indigenous cattle breeds instead of exotic cattle breeds. (1mk)

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

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

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

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6. State **two** conditions that make a cow to withhold milk during milking. (1mk)

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

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

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

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b) Give four advantages of Artificial Insemination. (2mks)

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

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

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

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13. Give **two** reasons for turning eggs regularly during incubation? (1mk)

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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. (2mks)

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

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

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

(a) Blue ticks; (½mk)

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(b) Brown ear ticks; (½mk)

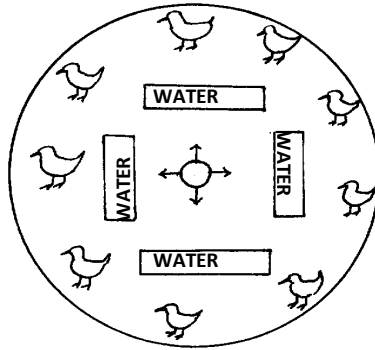
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(c) Tsetse flies. (½mk)

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SECTION B (20 MARKS)

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



a) Name the structure illustrated above. (1mk)

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b) Why should structure be round and not rectangular or square shaped. (1mk)

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c) Describe the heat situation in the structure. (1mk)

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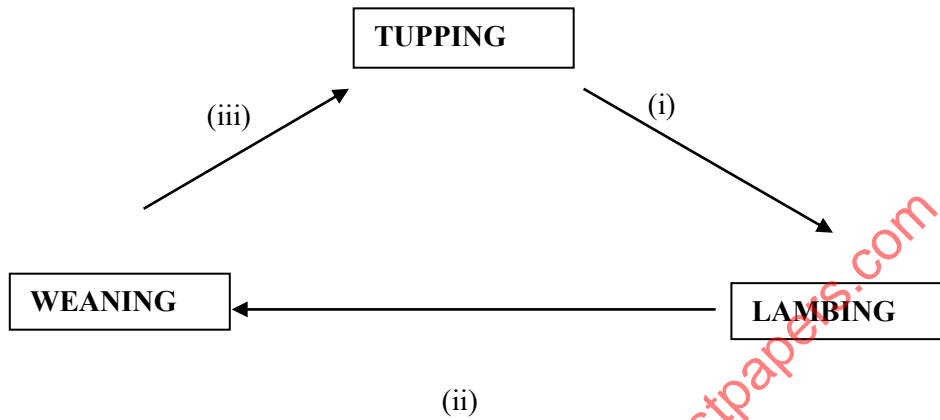
d) Give **one** reason to support your answer in (iii) above. (1mk)

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e) Why is saw dust not suitable for use as litter in the structure? (1mk)

20. Below is a breeding cycle of a ewe in relation to the feeding regime accompanying it. Use it to answer the following questions.



a) Name the management practice represented by (i),(ii) and (iii) (3mks)

i).....

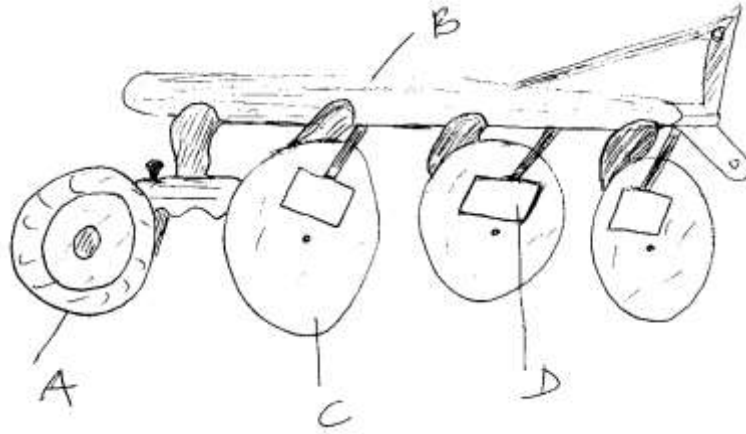
ii).....

iii).....

b) Give the importance of practice (i) (2mks)

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21. The diagram below shows a tractor drawn implement. Study it and answer the questions that follow.



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

- A.....
- B.....
- C.....
- D.....

b) State **two** advantages of using the above implement over mould- board plough. (2mks)

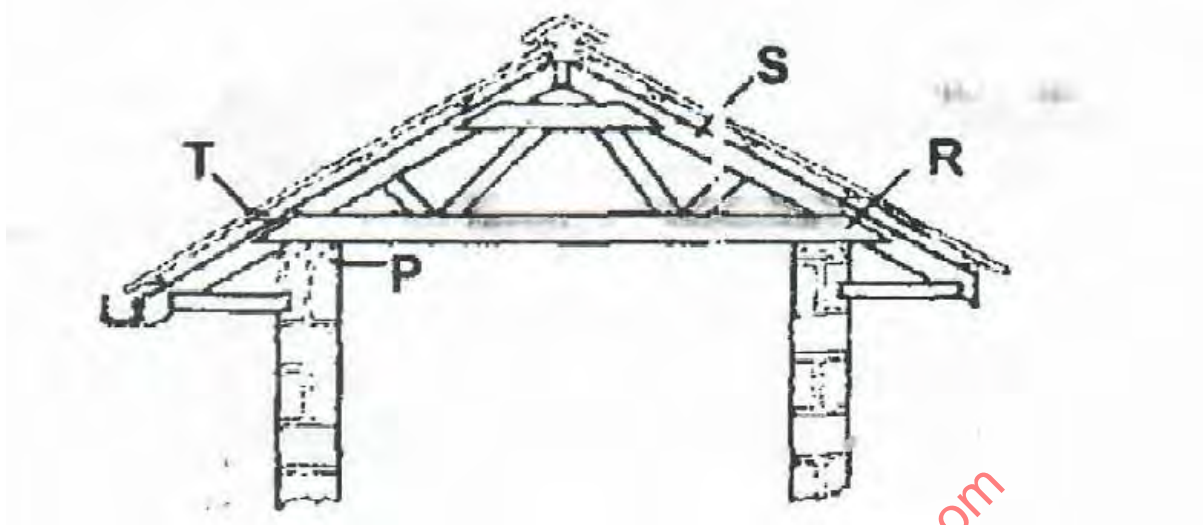
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c) State the function of the parts labeled. (1mk)

i) A
.....

ii) D
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22. The following diagram shows a part of a roof. Study it carefully and answer the questions that follow.



a) Name the parts labeled P, T, R and S. (2mks)

P-.....

T-.....

R-.....

S-.....

b) State the functions of P and T. (2mks)

P-.....

T-.....

c) Give **two** chemical preservatives for treating timber before use in the construction of farm structures

(1mk)

SECTION C (40 MARKS)

23. a) Describe the life cycle of a three host tick. (8mks)
- b) Give **three** tools used in construction of a wooden fence stating the use of each. (3mks)
- c) State **five** management practices done on an incubator. (5mks)
- d) State **four** factors that should be considered when selecting dairy goat for breeding. (4mks)
24. a) Discuss the general methods of controlling livestock diseases (10mks)
- b) Give **five** advantages of four-stroke cycle engines (5mks)
- c) Describe the essentials of clean milk production in dairy farming (5mks)
25. a) State **five** advantages of embryo transplant. (5mks)
- b) Describe coccidiosis disease under the following sub- headings.
- i. Animals attacked (2mks)
 - ii. Causal organism (1mk)
 - iii. Symptoms (4mks)
 - iv. Control measures (3mks)
- a) A ration containing 20% DCP for growing chicks is to be obtained by mixing ground maize containing 10% DCP and fishmeal containing 50% DCP. Calculate the amount of each feedstuff in kilograms required to prepare 200kg of the feed (5mks)