

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. (1¹/₂ 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)

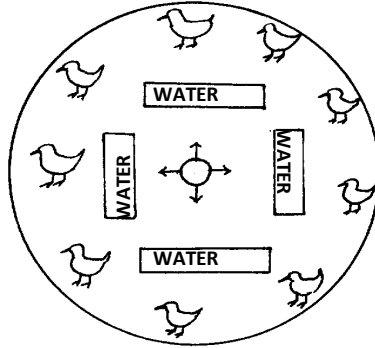
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(c) Tsetse flies. (½mk)

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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)

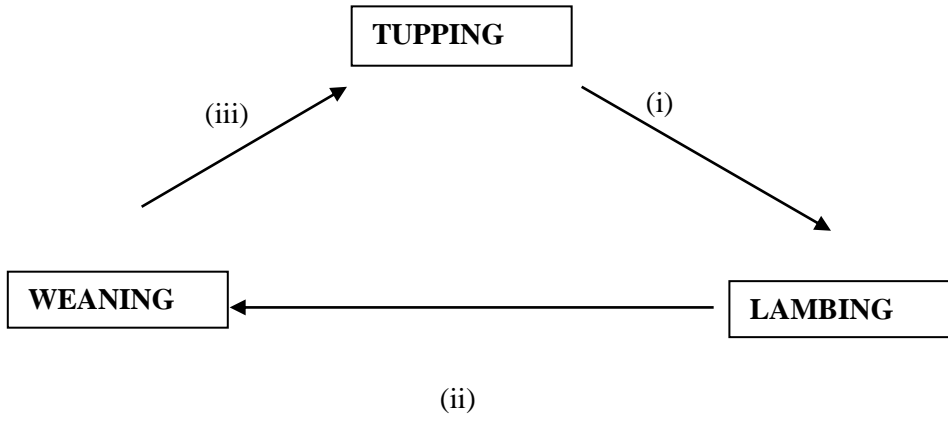
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e) Why is saw dust not suitable for use as litter in the structure? (1mk)

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



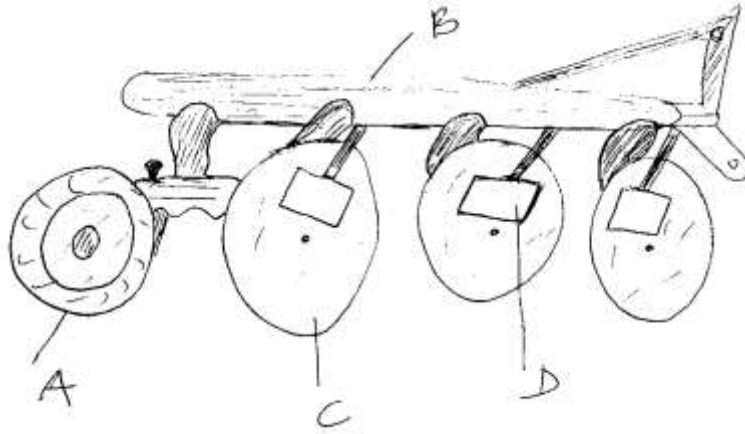
a) Name the management practice represented by (i),(ii) and (iii) (3mks)

- 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)

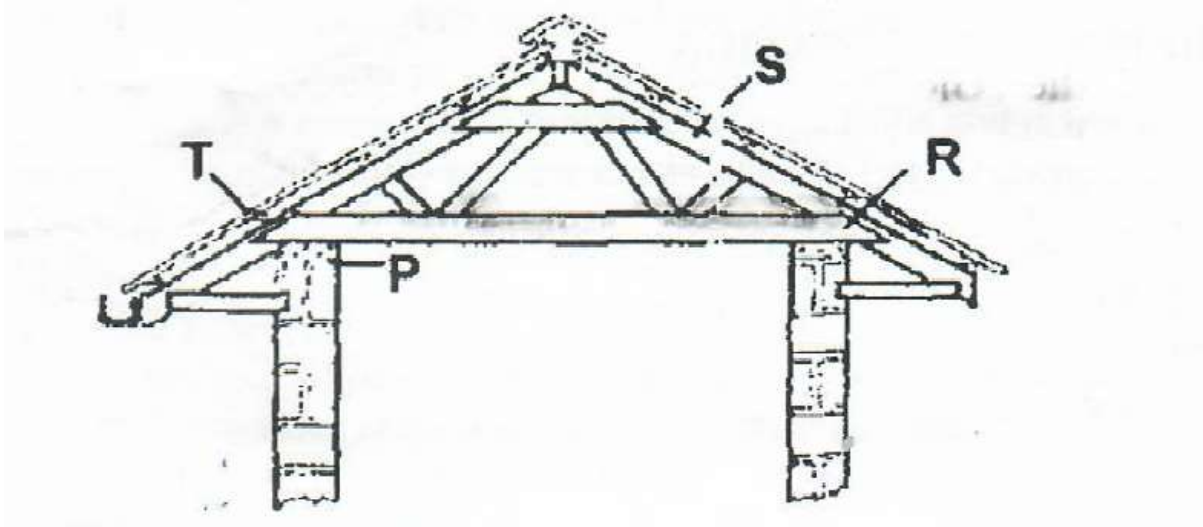
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c) State the function of the parts labeled. (1mk)

i) A

ii) D

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)