

NAME.....ADM NO.....CLASS.....

443/2

AGRICULTURE

PAPER 2

TIME: 2 HOURS

# LANJET JOINT EXAMINATION - 2024

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

## INSTRUCTIONS TO CANDIDATES

- Write your name, Admission number and class, 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

### For Examiners use only

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE SCORE
A	1-16	30	
B	17-20	20	
C	21-23	20 20	
<b>TOTAL SCORE</b>		<b>90</b>	

**Answer all questions in the spaces provided**

1. Distinguish between Apiculture and aquaculture as used in animal production. (2mks)
  
  
  
  
  
  
  
  
  
  
2. Name animal disease that it is transmitted by the following parasite  
i. Brown ear tick ( ½mk)
  
  
  
  
  
  
  
  
  
  
- ii. Tse tse fly ( ½mk)
  
  
  
  
  
  
  
  
  
  
3. State the secondary and intermediate host for liver fluke (*Fasciola hepatica*) (1mk)
  
  
  
  
  
  
  
  
  
  
4. State four breeds of goats. (2mks)
  
  
  
  
  
  
  
  
  
  
5. Outline the function of the Crop in the digestive system of hen. (1mk)
  
  
  
  
  
  
  
  
  
  
6. Give reasons why animal are restrained. (2mks)
  
  
  
  
  
  
  
  
  
  
7. Outline four viral disease in livestock. (2mks)
  
  
  
  
  
  
  
  
  
  
8. State three method of selection in livestock. (2mks)

9. Explain how to prevent cannibalism among poultry. (3mks)
10. Give the importance of additives in livestock feeds. (2mks)
11. Outline three types of calf pen. (2mks)
12. State four advantages of movable calf pen. (2mks)
- 13.
- i. Explain mating in livestock. (3mks)
- ii. Outline three methods of mating in livestock. (3mks)
14. Explain the reason why scrotal sac should distend and contract in various temperature state. (2mks)
15. Define the following terms
- i. Mothering ability. (1mk)

ii. Prolificacy in livestock. (1mk)

16. Explain what is pre-disposing factor. (1mk)

17. Name four pre-disposing factors that pre-disposes livestock to diseases. (2mks)

18. Give functional differences between rumen and abomasum. (2mks)

19. Which equipment is used to administer:

i. Solid taplet during deworming. (1mk)

ii. Liquid drug during deworming. (1mk)

**SECTION B(30MKS)**

20.

i. Briefly explain how three-host tick completes its life cycle. (4mks)

ii. Why is controlling tick using acaridae not efficient in hand in hand spraying method. (2mks)

21. Name the common parts of animal that ticks are likely to be found. (2mks)

22. State the diseases that ticks causes in livestock. (2mks)

23.

i. State the process of ascertaining whether egg are viable for incubation. (1mk)

ii. Briefly explain the procedure of the named process above. (4mks)

24.

i. Give a reason why should calf pen have slatted floor. (2mks)

ii. Outline the features of calf pen. (4mks)

25. Explain the reason why calf houses should be singly. (2mks)

- 26.
- i. Explain what is milk secretion process. (1mk)
  
  - ii. Identify the structure of the mammary gland of a cattle. (4mks)

**SECTION C(Answer any two questions)**

- 27.
- i. Explain the process of milk-let down process in livestock. (10mks)
  - ii. Outline factors that influence milk let down in animals. (5mks)
  - iii. Outline factors that determine the cleanliness of milk. (5mks)
- 28.
- i. Outline the signs of heat in cattle. (5mks)
  - ii. State five causes of stress in poultry. (10mks)
  - iii. Using Pearsons square compute a ration with 20% DCP.  
Show your working. (5mks)
- 29.
- i. Explain farming practices that contributes to minimum tillage. (5mks)
  - ii. Give the limitation of using artificial insemination in cattle. (5mks)
  - iii. State and explain factors to be considered in selection of animals for breeding purposes. (10mks)