

2910/104  
LIVESTOCK ENTERPRISE  
MANAGEMENT I  
June/July 2022  
Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL  
DIPLOMA IN SUSTAINABLE AGRICULTURE  
AND RURAL DEVELOPMENT

MODULE I

LIVESTOCK ENTERPRISE MANAGEMENT I

3 hours

**INSTRUCTIONS TO CANDIDATES**

*This paper consists of EIGHT questions.  
Answer any FIVE questions in the answer booklet provided.  
All questions carry equal marks.  
Maximum marks for each part of a question are indicated.  
Candidates should answer the questions in English.*

**This paper consists of 3 printed pages.**

**Candidates should check the question paper to ascertain that  
all the pages are printed as indicated and that no questions are missing.**

1. (a) Highlight **six** disadvantages of inbreeding. (6 marks)
- (b) Explain extensive livestock production system under the following:
- (i) advantages;
  - (ii) disadvantages.
- (14 marks)
2. (a) Differentiate between pastures and forages. (4 marks)
- (b) Explain **eight** factors considered in selection of the most suitable pasture plant variety. (16 marks)
3. (a) Explain **four** forage related factors that influence the process of moisture loss in hay production. (8 marks)
- (b) Explain drenching of livestock under the following:
- (i) drenching procedure;
  - (ii) time of drenching.
- (12 marks)
4. (a) Highlight animal feed quality under the following physical indicators:
- (i) stage of growth;
  - (ii) appearance and colour.
- (6 marks)
- (b) Explain **seven** animal factors that affect feed intake by animals. (14 marks)
5. (a) Explain the meaning of each of the following as per the Animal Disease Act Cap. 364:
- (i) animals;
  - (ii) animal disease;
  - (iii) infected area;
  - (iv) stock.
- (8 marks)
- (b) Highlight the policy statement on animal disease and pests by the national government. (12 marks)



6. (a) Highlight **eight** objectives of National Livestock Policy. (8 marks)
- (b) Describe the state of livestock market in Kenya during COVID-19 pandemic. (12 marks)
7. (a) Describe each of the following terms as used in animal breeding:
- (i) selection;
- (ii) culling. (8 marks)
- (b) Explain each of the following methods of animal selection:
- (i) individual;
- (ii) pedigree;
- (iii) family;
- (iv) progeny selection. (12 marks)
8. (a) Highlight the characteristics of indigenous cattle breeds. (10 marks)
- (b) Explain the role of livestock in the national economy. (10 marks)

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