

2425/302

**ANIMAL PRODUCTION III**

June/July 2019

Time: 3 hours



**THE KENYA NATIONAL EXAMINATIONS COUNCIL**

**DIPLOMA IN AGRICULTURE**

**MODULE III**

**ANIMAL PRODUCTION III**

**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 4 printed pages.**

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

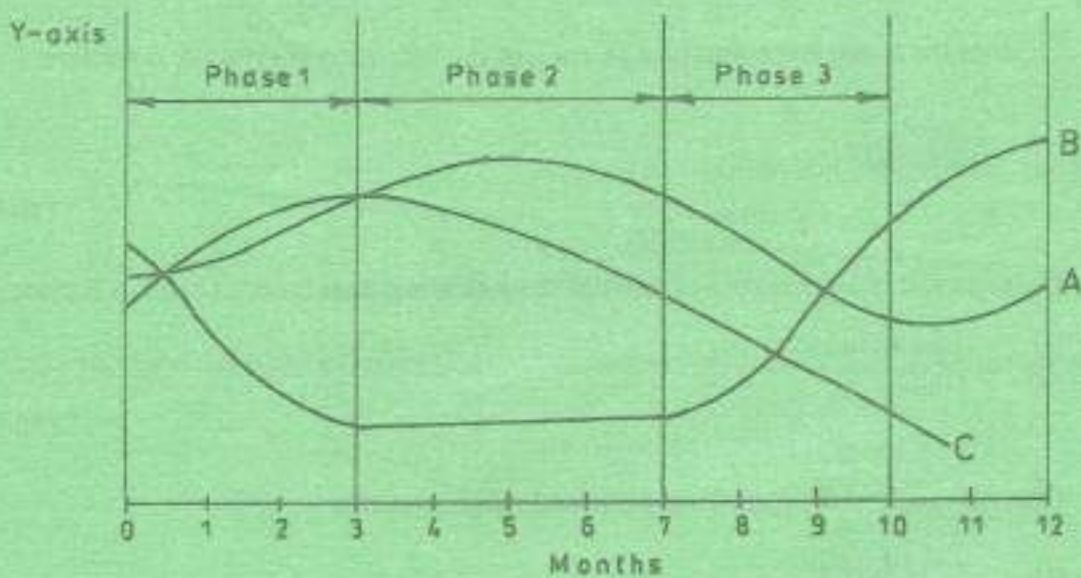


1. (a) Explain the problems of wildlife animals in Kenya. (10 marks)
- (b) Explain the process of starting a crocodile farm in Kenya. (10 marks)
2. Discuss honey bees with respect to:
- (a) importance; (8 marks)
- (b) reasons why there are different castes of bees in one hive; (6 marks)
- (c) reasons for queen bee replacement. (6 marks)
3. (a) Explain each of the following management practices carried out in sheep:
- (i) crutching;
- (ii) raddling. (4 marks)
- (b) Explain each of the following beam house operations:
- (i) liming;
- (ii) bating;
- (iii) pickling. (7 marks)
- (c) (i) Define the term 'beef cattle calendar'.
- (ii) Describe the activities included in the beef cattle calendar. (9 marks)
4. (a) Name four exotic beef cattle breeds in Kenya. (4 marks)
- (b) Explain the factors that may limit beef cattle production in Kenya. (16 marks)





5. The diagram below shows the relationship between milk production, dry matter intake and body weight of a lactating dairy cow.



(a) Identify:

- (i) phases 1, 2 and 3;
- (ii) curves labeled A, B and C.

(6 marks)

(b) Explain the trend of the curves in phases 1, 2 and 3.

(14 marks)

6. (a) Identify five areas of body condition score assessment.

(5 marks)

(b) The table below shows the body condition score (BCS) on a scale of 1 to 5.

Score	Condition
1	Very thin
2	Thin
3	Ideal
4	Conditioned
5	Over conditioned

Describe each score by the feel of assessment areas.

(15 marks)



7. (a) Highlight the characteristics of good quality raw milk. (5 marks)
- (b) Explain the feeding of rabbits using greens and concentrates. (5 marks)
- (c) Discuss the cause and symptoms of each of the following nutritional disorders:
- (i) bloat;
  - (ii) gossypol poisoning.
- (10 marks)
8. (a) Describe the characteristics of each of the following goat breeds found in Kenya:
- (i) East African;
  - (ii) Galla.
- (10 marks)
- (b) Describe each of the following goat production systems:
- (i) subsistence;
  - (ii) intensive.
- (10 marks)

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