

To scan photocopy

2 copies (filling)

2425/302  
ANIMAL PRODUCTION III  
Oct./Nov. 2018  
Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN AGRICULTURE

Galla

MODULE III

ANIMAL PRODUCTION III

3 hours

Sansat

**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) Classify sheep and goats under the following:

- (i) products; *mutton, skin*
- (ii) breeds.

(5 marks)

(b) Explain the indicators of the following bee behaviours:

- (i) migration;
- (ii) absconding;
- (iii) supersedure.

(6 marks)

(c) Explain how milk contamination may be reduced by the following:

- (i) animal health;
- (ii) animal cleanliness;
- (iii) milking hygiene.



(9 marks)

2. ✗ (a) Explain the term 'lactogenesis'.

(6 marks)

(b) Explain the factors that influence lactation yield in a dairy cow.

(14 marks)

3

(a) Explain the following wildlife population estimation methods:

- (i) total or complete count;
- (ii) incomplete count;
- (iii) mark and recapture.

(8 marks)

(b) Explain the benefits of game animals and wildlife.

(12 marks)

4

(a) Highlight the functions of worker bees in a hive.

(4 marks)

(b) Name any six bee products.

(6 marks)

(c) Explain the use of the following bee equipment:

- (i) catcher box;
- (ii) hive tool;
- (iii) queen excluder;
- (iv) pollen trap;
- (v) smoker.

(10 marks)

5. (a) Outline the procedure of curing hides by salting. (5 marks)

(b) Highlight any five ways of improving beef production in Kenya. (5 marks)

(c) Explain the management of beef cattle bull. (10 marks)

6. (a) Describe the treatment and prevention of the following in rabbits:

(i) mange mites;

(ii) coccidiosis.

(8 marks)

(b) Highlight the advantages of rearing rabbits. (12 marks)

7. ✗ Describe the causes and symptoms of the following diseases:

(a) oesophageal obstruction; (10 marks)

(b) pregnancy toxaemia. (10 marks)

8. ✗ (a) Highlight any five factors that may limit production of non-conventional animals in Kenya. (5 marks)

(b) Explain yoghurt making using starter culture. (5 marks)

(c) (i) Explain the importance of body condition score of an animal.

(ii) Explain the areas of assessment during body condition scoring.

(10 marks)

**THIS IS THE LAST PRINTED PAGE.**

*Cravices*