

2425/202
ANIMAL PRODUCTION II
June/July 2019
Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN AGRICULTURE

MODULE II

ANIMAL PRODUCTION II

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) Name **three** breeds of camels found in Kenya. (3 marks)
- (b) Describe two physical characteristics of each of the following types of camels:
- (i) meat;
- (ii) dairy;
- (iii) dual purpose;
- (iv) racing. (8 marks)
- (c) Describe the behaviour of a male camel during breeding season. (9 marks)
2. (a) Highlight the benefits of integrated fish farming. (6 marks)
- (b) Describe **seven** management practices in selection of fish brood stock. (14 marks)
3. (a) Describe **four** features of a good harness. (4 marks)
- (b) Explain **eight** practices that should be carried out to avoid harness injuries. (16 marks)
4. (a) Explain the need for pigs to be protected against extreme temperatures. (6 marks)
- (b) Explain **three** ways of minimizing stress due to weaner pooling in pig management. (6 marks)
- (c) State **eight** signs of heat in a sow. (8 marks)
5. (a) Explain artificial brooding in poultry. (10 marks)
- (b) Highlight **ten** biosecurity measures in an intensive poultry farm. (10 marks)
6. (a) Highlight the effects of each of the following parasites on the host:
- (i) lice; — *Wool, irritation, rough coat, pruritus, feed loss*
- (ii) fleas. — (10 marks)
- (b) Describe the life cycle of liver fluke (*Fasciola hepatica*). (10 marks)
- Egg → larva → grass blades → eaten by host - intestine
Female lay eggs that drop to the ground with faeces
Moxai*

7. (a) Define the term 'excitation' in relation to animal behaviour. (2 marks)
- (b) Highlight **two** signs of each of the following types of excitations:
- (i) anxiety;
 - (ii) restlessness;
 - (iii) mania;
 - (iv) frenzy. (8 marks)
- (c) Highlight **four** reasons for restricted feeding in pigs during gestation period. (4 marks)
- (d) List **six** breeds of indigenous chicken in Kenya. (6 marks)
8. (a) With the aid of a diagram, illustrate the various phases in layer production from brooding to the end of laying phase. (12 marks)
- (b) Explain **four** measures used in minimizing spoilage in fish after harvesting. (8 marks)

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