



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**THIRD YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR THE DEGREE
OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE**

2019/2020 ACADEMIC YEAR

REGULAR

COURSE CODE: AAS 3423

COURSE TITLE: Non-conventional Farm Animals

EXAM VENUE:

STREAM: BSc. Animal Science,

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

1. Answer ALL the questions in section A and any TWO in section B.
 2. Candidates are advised not to write on the question paper.
 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.
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SECTION A [30 MARKS]

Answer ALL questions in this Section.

1. Explain **two** biological adaptations that enable ostriches to cope with high ambient temperatures. [4 Marks]
2. Outline how we can exploit ostrich characteristics and behaviour to improve the reproductive performance of breeding birds. [4 Marks]
3. Explain **four** measures we can use to overcome negative effects of temperature during incubation of ostrich eggs. [4 Marks]
4. Give **four** reasons that would cause ostrich chicks to be culled at hatching and **one** cause for each reason. [8 Marks]
5. Explain **four** advantages of quail farming that makes it a suitable enterprise for rural communities. [4Marks]
6. Explain **two** methods you can use to stock crocodiles in a crocodile farm, citing one advantage and one disadvantage of each. [6 Marks]

SECTION B [40 MARKS]

Answer any TWO QUESTIONS from this Section.

7. a. Discuss the potential of utilizing insects as animal feed. [10 Marks]
b. Explain four constraints than need to be overcome in order to enhance insect use as feed and food. [10 Marks]
8. Discuss **four** factors associated with respiratory tract infections in ostriches and how these factors can be managed in order to minimize cases of infection. [16 marks]
b. Give **two** reasons why biosecurity is so important in ostrich production. [4 Marks]
9. Discuss the potential of crocodile farming as an economic activity. [10 Marks]
b. Describe **five** key aspects of housing that should be considered in modern crocodile farming. [10 Marks]