



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF AGRICULTURAL AND FOOD SCIENCES**

**FOURTH YEAR –SEMESTER TWO UNIVERSITY EXAMINATION FOR**

**THE DEGREE OF SCIENCE IN ANIMAL SCIENCE**

**2017/18 ACADEMIC YEAR**

**REGULAR**

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**COURSE CODE: AAS 3423**

**COURSE TITLE: NON-CONVENTIONAL FARM ANIMALS**

**EXAM VENUE:**

**STREAM: ANIMAL SCIENCE**

**DATE:**

**EXAM SESSION:**

**TIME: 2HOURS**

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**INSTRUCTIONS**

1. Answer ALL questions in Section A and Any other 2 Questions in section B
2. Candidate ae advised not to write on question paper
3. Candidate must hand in their answer booklets to the invigilator while in the examination room

**SECTION A (30MKS)**

**Answer All Questions in this Section**

1. Non-conventional farming is inevitably becoming an integral component of farming that ought to be embraced at small scale so as to boost the livelihood of many farmers. As a major component of farming:
  - i. Explain the meaning of the following terms as used in production of non - conventional farm animals (1 mark each)
    - a) Sericulture
    - b) Apiculture
    - c) Keets
    - d) Colonization
    - e) Reeling
  - ii. Differentiate between swarming and absconding as used in bee production (2mks)
2. (a) Give five reasons why rearing of guinea fowls should be embraced by farmers in Kenya (5mks)  
(b) Describe any three systems of rearing guinea fowls (3mks)
3. In the recent past, most famers in Kenya have opted to embrace quail faming at an expense of other poultry birds. Explain;
  - i. Four characteristics of quails (4mks)
  - ii. Five benefits of quail farming (5mks)
  - iii. Housing of quails (3Mks)
  - iv. Explain how production of quails can be done to enhance healthy and hygienic quails (3mks)

**SECTION B (40MKS)**

**Answer ANY TWO questions from this Section**

4. Discuss the production of ostrich under the following headings
  - i. Housing (8mks)
  - ii. Parasite and disease control (6 mks)
  - iii. Feeding (6mks)
5. Explain
  - i. Functions and components of a modern bee hive. (8mks)
  - ii. Describe the three castes of a bee colony with respect to the roles and structural differences (8mks)
  - iii. Any Four ways of enhancing colonization in bee production (4mks)
6. Sericulture is one of the most profitable farming practice although not widely practiced in Kenya. With respect to that:
  - i. explain the general/conditions required for silk production (9mks)
  - ii. Explain the procedure followed in reeling (4mks)
  - iii. State four properties of silk (4mks)
  - iv. Briefly state the life cycle of silkworm (3mks)