

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURE AND FOOD SCENCES

SECOND SEMESTER SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT AND BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION 2019/2020 ACADEMIC YEAR

COURSE CODE: AAS 3221

COURSE TITLE: Principles of Animal production

EXAM VENUE: STREAM: (BSc. Agribusiness Management;

BSc. Agricultural Education and Extension)

DATE: EXAM SESSION:

TIME: 2HOURS

Instructions:

- 1. Answer ALL questions in Section A (compulsory) and ANY TWO questions 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

SECTION A [30 MARKS]

Answer ALL questions from this section

1. What is Ecology? [5 marks]

- 2. State two major ecological concepts and two main ecological principles related to each concept. [5 marks]
- 3. Distinguish between "coarse filter" and "fine filter" approaches in relation to conservation of ecological communities . [5 marks]
- 4. In what ways does climate change affect livestock production. [5marks]
- 5. Define feed conversion ratio and explain how it is calculated. [5marks]
- 6. In what ways does thermoregulation in poultry differ from that in mammals. [5marks]

SECTION B [40 MARKS]

Answer any TWO QUESTIONS in this Section.

- 7. Define an "ecosystem" indicating the largest ecosystem and its components. [20 marks]
- 8. Discuss the three major trends relating to pasturelands and how these are affecting the productivity gains from pasture-based livestock production systems. [20 marks]
- 9. Discuss the ways in which the adaptation capacity of the traditional livestock producers in extensive systems can be increased to deal with the impacts of climate change on livestock.[20marks]