

**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE**

**AND TECHNOLOGY**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE**

**FOURTH YEAR FIRST SEMESTER 2017/2018 ACADEMIC YEAR**

**CENTRE: MAIN CAMPUS**

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**COURSE CODE: AAS 3414**

**COURSE TITLE: Pig Production**

**EXAM VENUE: LR 5 STREAM: BSc (Animal Science)**

**DATE: 19/12/17 EXAM SESSION: 9.00 – 11.00a m**

**TIME: 2 HRS**

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**Instructions:**

1. **Answer ALL questions in section A and ANY other 2 Questions in section B**
2. **Candidates are advised not to write on 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 in section A**

1. Outline the four effects of cross breeding in pigs **( 4 marks)**

b) What are some of the practices that should be done with a baby piglet within the first couple of days? **( 2 marks)**

c) List 8 reasons for culling a sow. **(4 Marks)**

1. a. Briefly outline common reproductive diseases in sows. **( 6 marks)**

b.Briefly describecauses of tail-biting in a confinement pig operation. **(4 Marks)**

1. a. Alternative feeding help reduce pig costs; some fodder crops can replace half a ration of compound feeds. List **six (6)**fodder crops. **( 3 marks)**

b. Briefly discuss how disease and parasites can be controlled in pigs.**( 3 marks)**

**c.** Describe the basic principles of biosecurity at the farm level of a pig production system. **(4 Marks)**

**SECTION B: (40 Marks)**

**Answer ANY TWO questions in section B**

1. a. Discuss the technology of swine production under following subtopics
   * 1. large unit **( 4 Marks)**
     2. Traditional **( 4 Marks)**
     3. Alternative **( 4 Marks)**
   1. Discuss stages of common heat signs in sows. **(8 Marks)**
2. a. Discuss advantages and disadvantages of pig production**( 10 Marks)**

**b.** Contrast outdoor and intensive indoor pig production systems. **( 10 Marks)**

1. a. Discuss the main features of Duroc and Landrace pig breed, in your discussion highlight the breed you will recommend to a farmer interested in terminal crossing commercial enterprise. **(10 Marks)**
2. Discuss areas to be considered while selecting breeding Gilt. **( 10 Marks)**