



**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

COURSE CODE: AAS 3414

COURSE TITLE: PIG PRODUCTION

EXAM VENUE: LR 5

STREAM: BSC. (ANIMAL SCIENCE)

DATE: 18/12/17

EXAM SESSION: 2.00 – 4.00PM

TIME: 2 HRS

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**)
2. a. Briefly outline common reproductive diseases in sows. (**6 marks**)
b. Briefly describe causes of tail-biting in a confinement pig operation. (**4 Marks**)
3. 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

4. a. Discuss the technology of swine production under following subtopics
 - i. large unit (**4 Marks**)
 - ii. Traditional (**4 Marks**)
 - iii. Alternative (**4 Marks**)
b. Discuss stages of common heat signs in sows. (**8 Marks**)
5. a. Discuss advantages and disadvantages of pig production (**10 Marks**)
b. Contrast outdoor and intensive indoor pig production systems. (**10 Marks**)
6. 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**)
b. Discuss areas to be considered while selecting breeding Gilt. (**10 Marks**)