



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

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

**2016/2017 ACADEMIC YEAR**

**CENTRE: MAIN CAMPUS**

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**COURSE CODE: AAS 3414**

**COURSE TITLE: PIG PRODUCTION**

**EXAM VENUE:**

**STREAM: BSc. Animal Science**

**DATE:**

**EXAM SESSION:**

**TIME: 2 HOURS**

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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 THIS SECTION

1. a) What are two symptoms of overcrowding? ( **2 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) How long is a sow's gestation? ( **1 marks**)  
d) What will be **killing out %** of a baconer with live weight of 85kg. ( show your workings). ( **3 marks**)  
  
e) List four pig products commonly sold through retail outlets ( **2 marks**)
2. a. Describe how the process of artificial insemination of a pig is carried out by an experienced technician. ( **5 marks**)  
  
b. List factors which affect the selection of pigs for breeding. ( **3 marks**)  
  
c. What quantity of feed will you give to a sow with 8 piglets per day? ( **2 marks**)
3. a) List classes of pigs and type of feeds they should be fed. ( **4 marks**)  
b) Alternative feeding help reduce pig costs; some fodder crops can replace half a ration of compound feeds. List **six (6)** fodder crops. ( **3 marks**)  
c) Briefly discuss how disease and parasites can be controlled in pigs. ( **3 marks**)

## **SECTION B : 40 MARKS**

### **ANSWER ANY TWO QUESTIONS IN THIS SECTION**

4. A client with an 80-sow outdoor unit has complained that his farrowing index has fallen from 2.43 to 1.82 litters per sow per year. Discuss the possible reasons for this apparent drop in productivity and describe how you would attempt to identify the possible causes of the problem. ( **20 marks**)
5. a. Discuss the management, husbandry and nutrition of breeding boars to optimise breeding performance in sows. ( **10 marks**)  
b. List the advantages, if any, that you believe might accrue from the use of artificial insemination. ( **10 marks**)
6. A client has just set up a new breeding unit comprising 60 gilts and the first farrowings have been taking place over the last four weeks. During this time there have been an excessive number of pigs dying as a result of being overlain and, as a result thus far, pre-weaning mortality has reached 30%. Discuss the various possible causes for this and outline the advice you would give this client who is clearly very worried about the outcome of future farrowings. ( **20 marks**)