



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

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

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

**CENTRE: MAIN CAMPUS**

**COURSE CODE: AAS 3214**

**COURSE TITLE: ANIMAL GROWTH AND DEVELOPMENT**

**EXAM VENUE:**

**STREAM:**

**DATE:**

**EXAM SESSION:**

**TIME: 2 Hours**

**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. a) Outline the main reasons for understanding growth and development. ( 4 Marks)  
b) Outline sequence of body tissue formation.( 4 Marks)  
c) Using examples briefly outline homeostasis (2 Marks)
2. a) Briefly discuss the phases of the growth curves.( 3 Marks)  
b) Using examples differentiate chronological age from physiological age. ( 4 Marks)  
c) Outline how castration affect growth and development ( 5 Marks)
3. a) Briefly discuss methods of assessing development (5 Marks).  
b) List some of the synthetic hormones which have been used to manipulate development. (3 Marks)

## **SECTION B (40 Marks)**

**Answer ANY TWO questions in section B**

4. Describe what takes place during the different phases of the life cycle of most animals (20 Marks).
5. Discuss environmental factors affecting growth and development. (20 Marks)
6. a. Discuss effect of genetic makeup on growth and development of farm animals. (10 Marks)  
b. Describe how growth or development is influenced by the age of livestock. (10 Marks)