

**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.**( 4Marks)**
   1. Outline sequence of body tissueformation**.( 4Marks)**
   2. Using examples briefly outline homeostasis**(2Marks)**
2. a) Briefly discuss the phases of the growth curves**.( 3 Marks)**
   1. Using examples differentiate chronological age from physiological age. **( 4Marks)**
   2. Outline how castration affect growth and development **( 5 Marks)**
3. a) Briefly discuss methods of assessing development**(5Marks).**
   1. 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**

1. Describe what takes place during the different phases of the life cycle ofmost animals (**20Marks).**
2. Discussenvironmental factors affecting growth and development. **(20 Marks)**
3. 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)**