

# JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCIENCES UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE

## $2^{ND}$ YEAR $1^{ST}$ SEMESTER 2018/2019 ACADEMIC YEAR REGULAR

**COURSE CODE: AAS 3214** 

COURSE TITLE: ANIMAL GROWTH AND DEVELOPMENT

**EXAM VENUE:** STREAM: (BSc. Animal Science)

DATE: EXAM SESSION:

**TIME: 2HOURS** 

#### **Instructions**

- 1. Answer ALL questions in Section A (compulsory) and ANY TWO questions in Section B
- 2. Candidates are advised not to write on the 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 from this Section.**

growth can be used in beef production.

6. Discuss factors affecting growth and development.

Answer ALL questions from this Section.	
1. a) Define;	
i. Growth.	(2 Marks)
ii. Adipocytes	(2 Marks)
iii. Chondrocytes	(2 Marks)
b) Differentiate Dam from Sire.	(2 Marks)
c) Outline homeostasis.	(2 Marks)
2. a) Explain the three ways growth can occur.	(6 Marks)
b) Highlight how castration affects growth and development.	(4 Marks)
3. a) Compare and contrast differences in true growth and fattening	(4 Marks)
b) List four hormones which affect growth and development.	(2 Marks)
c) Briefly outline environmental factors that influence phenotype of an a	nimal.
	(4 Marks)
SECTION B [40 MARKS]	
Answer ANY TWO questions from this Section.	
4. a) Factors affecting adipose tissue growth, development and metabolism	. (10 Marks)
b) With examples discuss abnormal growths	(10 Marks)
5. a) Nutritional regulation of prenatal growth.	(10 Marks)
b) There are potential benefits in using compensatory growth. Discuss ho	w compensatory

(10 Marks)

(20 Marks)