JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF ANIMAL SCIENCE

THIRD YEAR FIRST SEMESTER 2017/2018 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: AAS 3315

COURSE TITLE: ANIMAL REPRODUCTION & TECHNOLOGY

EXAM VENUE:LR 7 **STREAM: BSc. Animal Science**

DATE:13/12/17 **EXAM SESSION: 9.00 – 11.00 am**

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. i) Outline pituitary hormones and their principal functions. **(3 marks)**

   ii) List hormones used for superovulation (**3 marks)**

   iii) Outline advantages and disadvantages of embryo transfer. **(3Marks)**

2. a) What is the main function of the vulva? **(1 Mark)**

   b). Briefly discuss the structure of the penis of a dog. **(2 Marks)**

   c) Outline male hormone cycle **(5 Marks)**

   d**)** Outline importance of estrous synchronization. **(3 Marks)**

3. a) Outline common signs of estrous. **(4 Marks)**

   b) Describe the major functions of the placenta. **(4 Marks)**

   c) Define parturition **(2 Marks)**

SECTION B: (40 MARKS)

Answer ANY TWO questions in section B

4. a) Describe the "Blood Testis Barrier" and explain why it is important in reproduction in the male. **(10 marks)**

   b) Describe four (4) characteristics of the scrotum that act in thermoregulation in the testicles**. (10 Marks)**

5. Describe the events that occur in the different stages of the oestrous cycle and hormones involved in regulating these changes.. **(20 Marks)**

6. a. Discuss factors affecting egg production**.(10 Marks)**

   b. Using well labeled diagram, discuss physiology of egg formation. **(10 Marks)**