

**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: STREAM:**

**DATE: EXAM SESSION:**

**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)**

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

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

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

d**)** Outlineimportance of estrous synchronization. **(3 Marks)**

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

b)Describe the major functions of the [placenta](https://www.studocu.com/en-us/document/707501/practice/flashcard?term=placenta). **(4 Marks)**

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

**SECTION B: (40 MARKS)**

**Answer ANY TWO questions in section B**

1. 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)**

1. Describe the events that occur in the different stages of the oestrous cycle and hormones involved in regulating these changes..**( 20 Marks)**
2. a. Discuss factors affecting egg production**.( 10 Marks)**

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