

ANIE 311

EGERTON



UNIVERSITY

UNIVERSITY EXAMINATIONS
REGULAR MODE - NJORO CAMPUS

FIRST SEMESTER, 2018/2019 ACADEMIC YEAR

THIRD YEAR EXAMINATION FOR THE BACHELOR OF SCIENCE DEGREE IN
ANIMAL SCIENCE

ANIE 311: REPRODUCTION IN FARM ANIMALS

STREAM: BSC. (AHM Y3 61)

TIME: 2HRS

EXAMINATION SESSION: FEBRUARY

YEAR: 2019

INSTRUCTIONS:

- (i) Attempt all the questions**
- (ii) Be clear and to the point.**

Question One

a) State the functions of the following:

- i) Ovary (2 Marks)**
- ii) Epididymis (2 Marks)**
- iii) Seminiferous tubules (2 Marks)**
- iv) Scrotum (2 Marks)**

b). Define the following terms

- i) Endocrinology (2 Marks)**
- ii) Sexual reproduction (2 Marks)**
- iii) Hormone (2 Marks)**

Question Two

a) Name 2 hormones produced by the following organs and their functions in (i) males ii) females

- i) Hypothalamus (6 Marks)
- ii) Anterior pituitary gland (8 Marks)

b) State the site of production of the following hormones and functions

- i) Testosterone (4 Marks)
- ii) Estrogen (4 Marks)
- iii) Progesterone (4 Marks)

Question Three

Describe the mechanisms by which the scrotum controls temperature of the testes (16 Marks)

Question Four

a) Define the following terms:

- i) Sperm capacitation (2 Marks)
- ii) Fertilization (2 Marks)
- iii) Anestrus (2 Marks)

b).Define colostrum and give its importance in animals (8 Marks)

c) Give the functions of the placenta in cows (10 Marks)

Question Five

Describe the process of initiation of parturition in a cow giving details of the hormones involved (20 Marks)
