



NATIONAL OPEN UNIVERSITY OF NIGERIA
Faculty of Agricultural Sciences
Department of Animal Science and Fisheries
Second Semester Examination, October 2019

Course: ANP306: Physiology of Animal Reproduction and Growth
Credit Unit: 2
Time Allowed: 2 hours.

INSTRUCTIONS: Answer question one (Compulsory: 25 Marks) and any other THREE (15 marks each)

QUESTION 1

- i. Write short note on:
 - a) Oestrous 6 marks
 - b) Ovarian cycles 5 marks
- ii. Highlight the four (4) stages of oestrous cycle 4 marks
- iii. State the classification of ovarian cycle 6 marks
- iv. Highlight the behavioural and biophysical changes associated with Oestrus 4 marks

QUESTION TWO

Write short notes on the following:

- i. Stages of parturition 9 marks
- ii. Maternal Requirements for Normal Birth and Uterine involution 6 marks

QUESTION THREE

- i. Briefly describe the three types of hormone molecules often found in farm animals. 9 marks
- ii. What are the functions of follicle stimulating hormone and luteinizing hormone 4 marks
- iii. What are responsible for vasopressin release under the condition of low blood volume and increased osmotic pressure of the blood. 2 marks

QUESTION FOUR

- i. Define the concept of Artificial insemination 1 mark
- ii. Highlight the principles of semen preservation 4 marks
- iii. What are the advantages and disadvantages of Artificial insemination? 10 marks

QUESTION FIVE

- i. Define the concept of muscular system in animals 3 marks
- ii. Differentiate btw aerobic and anaerobic muscle activity in animals 12 marks

QUESTION SIX

- i. Briefly explain the functional categories of reproductive Hormones 5 marks
- ii. State briefly the chemical categories of reproductive Hormones 4 marks
- iii. Attempt classifying hormones of reproduction based on their functions 6 marks