



NATIONAL OPEN UNIVESITY OF NIGERIA

Faculty of Agricultural Sciences

Department of Animal Science and Fisheries

**POP Examination, 2021** 2<sup>7836</sup>

Course: ANP306: Physiology of Animal Reproduction and Growth

Credit Unit: 2

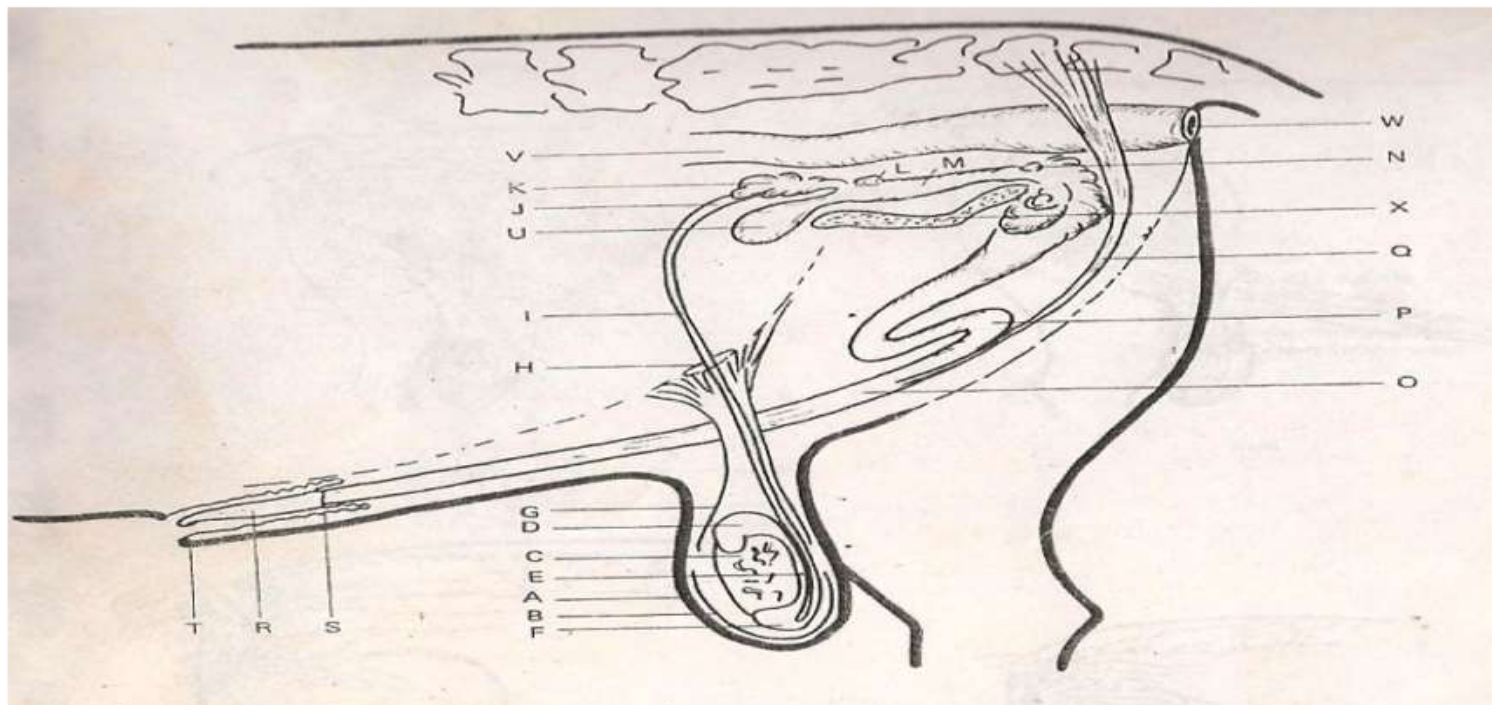
Time Allowed: 2 hours.

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

QUESTION 1

- i. Can you group by characteristics the gross shape of five types of placentation in mammals? 6 marks
- ii. Can you provide a list of elements responsible for operation derangements in the secretion of adaptive hormones? 5 marks
- iii. Can you explain what could be responsible fertility challenges during artificial insemination? 6marks
- iv. Identify any eight (8) parts of male reproductive anatomy listed on the table below as illustrated in the diagram below 8 marks

1. W =	5. V =	9. K=
2. P=	6. U =	10. E=
3. O =	7. M=	11. R =
4. T =	8. C =	12. X =



MALE REPRODUCTIVE ANATOMY (GROSS)

## QUESTION 2

- i. Can you write in your own words the process of neuroendocrine reflex of milk ejection reflex? 3 marks
- ii. Illustrate the structure of a typical neurone with the aid of a well labelled diagram 12 marks

## QUESTION 3

- iii. Describe the uterus of reproductive system of a cow 4 marks
- iv. Can you brief outline various stages of the evolution of the circulatory system of fish, amphibians, reptiles, and birds? 12 marks

## QUESTION 4

- i. What is Addison's Diseases? 1 mark
- ii. Can you categorize the features the outer region of Adrenal Cortex gland and the functions? 14 marks

## QUESTION 5

Write short note on the following aspect of Leptospirosis.

- i. Importance and transmission 6 marks
- ii. Diagnosis and control 6 marks
- iii. Treatment 3 marks

## QUESTION 6

- i. State in your own words The usefulness of extrinsic and intrinsic nerve regulators in digestive process? 4 marks
- ii. Can you provide a brief explanation for open circulatory system and absence of circulatory system? 11 marks