FACULTY	HEALTH SCIENCES AND VETERINARY MEDICINE		
DEPARTMENT	PRECLINICAL VETERINARY STUDIES		
SUBJECT	VETERINARY STRUCTURE AND FUNCTION III PAPER 1		
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DURATION	3 HRS	**MARKS**	150

Examiners: Dr B. Mushonga, Dr B. A. Chiwome

Internal Examiner: Dr A. Samkange

External Moderator: Prof J.P. Chamunorwa

Instructions

This QUESTION paper consists of **four** [4] pages including this front page.
This paper consists of 2 sections:
Section A: 100 marks
Section B: 50 marks
Answer each section in separate answer booklets

ANSWER ALL QUESTIONS

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER

Section A [100]

Question 1

The endocrine control of blood calcium levels is mainly through the products of two glands and the effect of their hormones on body cells. Copy and complete the following table to describe? how this is achieved. [15]

Condition	The hormone produced in response	The gland that produces this hormone	The cells that produce this hormone	The target cells and the action on these cells
Hypocalcaemia				
Hypercalcaemia				

Question 2

Define the term "Plasma cell" and describe its microscopic appearance. [3]

Question 3

Draw and label the basic structure of a lymph node; showing all the structures found in it. [10]

Question 4

Describe the process of formation and maturation of T lymphocytes in the body and mention the different sites where these processes occur. [8]

Question 5

a. List the functions of the spleen. [5]

b. Describe the process by which the spleen eliminates old and damaged red blood cells. [9]

Question 6

a. Describe the structural differences between the ovary of the mare and that of the cow. [2]

b. Discuss the formation of the corpus luteum in the ovary with emphasis on the cells involved and the hormonal control. [5]

Question 7
Name and describe the different components of the uvea of the eye, stating the function of each component. [10]

Question 8
The following questions are about the female reproductive anatomy and the clinical considerations when approaching dystocia in the bitch. [24]

a. Describe the topographic location of the uterus and ovaries in the bitch. [4]

b. Describe the anatomical features of the pelvis that determine the difficulty of birth in the bitch and state what level of risk the bitch's pelvis poses. [6]

c. In the event of surgical intervention, what is the preferred route of access into the abdomen for a caesarian section and what layers must one cut through to expose the uterus? [4]

d. Describe the blood supply to the female internal reproductive tract from the aorta. [6]

e. What are the different structures found in the ovarian pedicle? [4]

Question 9
Describe the blood supply and drainage of the udder [6]

Question 10
Describe the lymphatic drainage of the testes [3]

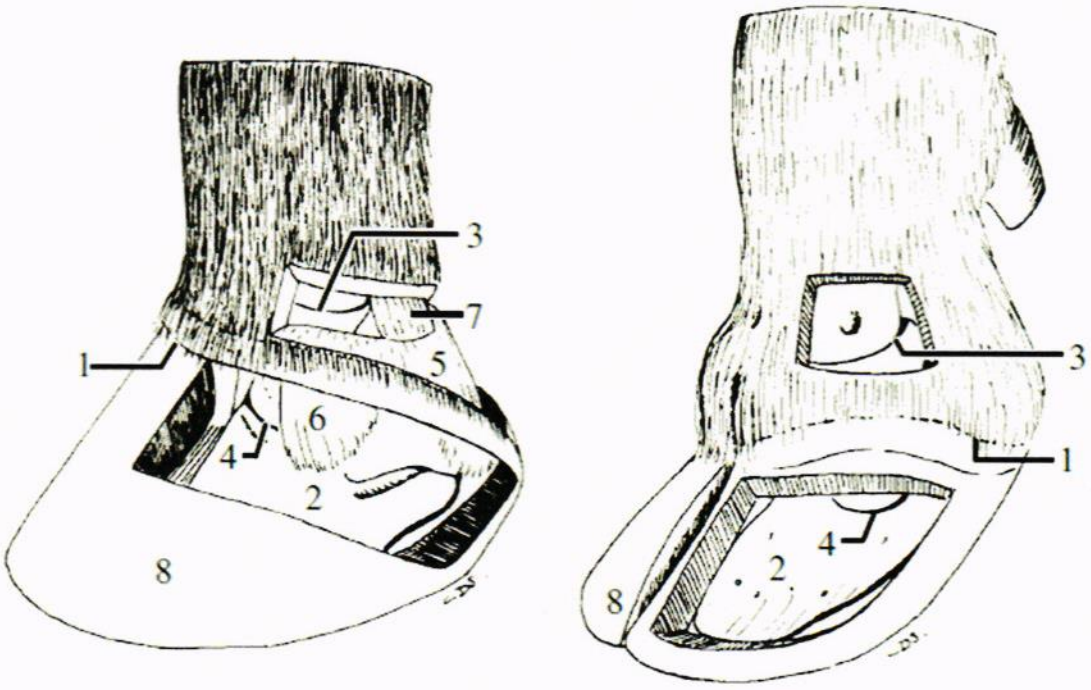
Section B [50]

Question 11
Describe the gross, topographical, and developmental anatomy of the hypophysis. [22]

Question 12
Name the cells found in the epidermis and state the function of each. [8]

Question 13

Below is a diagram of the hooves of domestic animals. Identify and label the structures indicated by numbers 1-8 [8]



Equine **Bovine**

Question 14

1. Name and describe the layers of the skin [6]

Question 15

Name the 3 types or categories of endocrine glands giving an example of each [6]

End of paper