FACULTY	HEALTH SCIENCES AND VETERINARY MEDICINE		
DEPARTMENT	PRECLINICAL VETERINARY SCIENCES, SCHOOL OF VETERINARY MEDICINE		
SUBJECT	VETERINARY STRUCTURE AND FUNCTION III (PAPER I, ANATOMY)		
SUBJECT CODE	V3681ES		
DATE	June 2025		
DURATION	3 Hours	MARKS	150

Lecturers: Dr B. Mushonga, Dr B.A. Chiwome
Internal moderator: Dr A. Samkange
External moderator: Prof. J.P. Chamunorwa

Instructions
This memorandum consists of seven (7) pages including this front page.

This paper consists of 3 sections:
Section A: 90 marks
Section B: 45 marks
Section C: 15 marks

Answer each section in separate answer booklets
Answer ALL questions

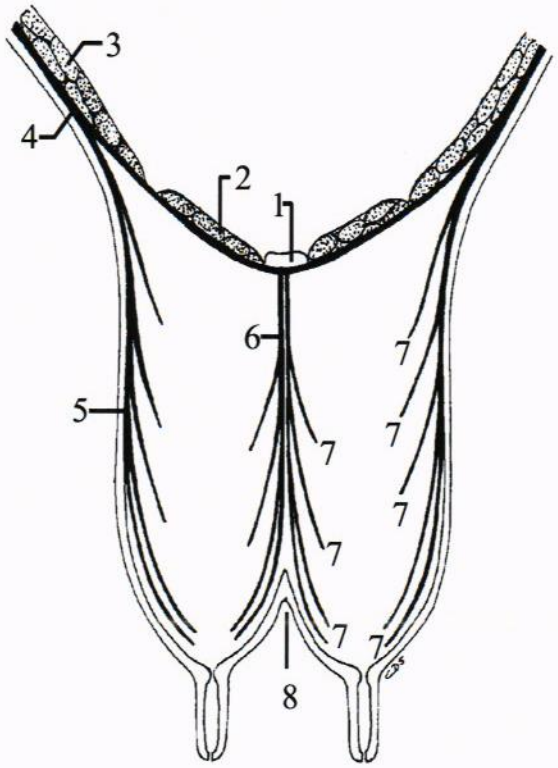
Additional materials to be supplied: **None**

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER

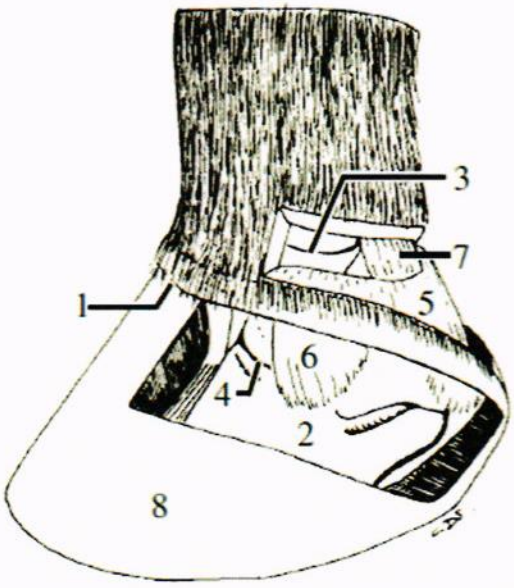
Section A: Gross anatomy (90 Marks)

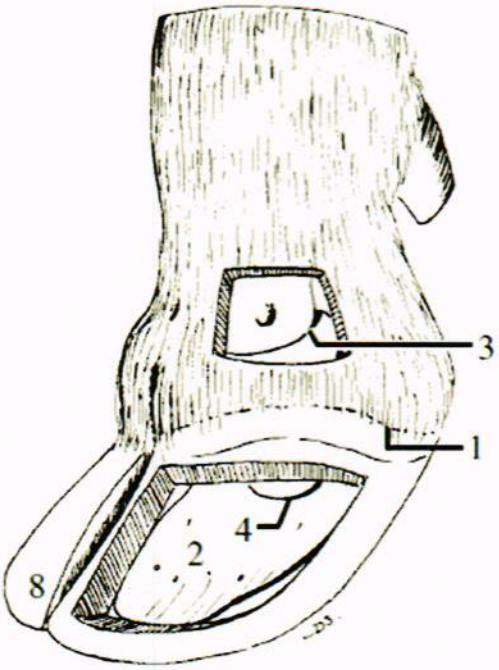
1. Name the three types or categories of endocrine glands, giving an example of each (6)

2. Label the diagram below (8)



3. Label the diagram below (8)





Equine **Bovine**

4. Name the layers of the skin and state their positions relative to each other (3)

5. Name the accessory sex glands found in the male and describe the products and the function of these products. (9)
6. Name the different erectile tissues found in the penis and how they function during copulation. (5)

7. Describe the structure of the dog's external ear. (12)

8. Describe the production and drainage of the aqueous humor in the eye. (8)

9. Name the components of the middle ear and describe the structure of each. (11)

10. List the various ligaments that support the female reproductive tract and state which part each supports. (10)

11. Describe the course of the blood supply to the uterus (5)

12. List the contents of the ovarian pedicle (5)

Section B Microscopic Anatomy (45 Marks)

1. Describe the flow of lymph through a lymph node and state the regions the lymph passes through, and the cells in each region. (10)

2. Describe the structure and function of the parenchyma of the spleen. (10)

3. What is the mucosa-associated lymphoid tissues (MALT)? Give three examples of MALT. (5)

4. Describe the histological structure of the testis, highlighting the key components involved in spermatogenesis. (10)

5. Describe the histology of the wall of the uterus. (10)

Section C: Developmental Anatomy (15 Marks)

1. Describe the development of the gonads up to and including **the indifferent stage** in the male and female. (15)

END OF PAPER