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 three (3) 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**

SECOND OPPORTUNITY EXAMINATION

Section A: Gross Anatomy (90 marks)

1. Describe the gross and topographical anatomy of the hypophysis, giving the alternative names of the different parts.(12)

2. Give the arterial supply, venous drainage, lymphatic drainage and nerve supply of the mammary gland of the cow that are relevant to mastectomy (13)

3. Name the extrinsic penile muscles in dogs and state the function of each. (8)

4. Name and describe the openings of the cervix. (4)

5. Describe the thermoregulatory mechanisms that ensure the testes are kept at an optimum temperature in relation to the body. (14)

6. Describe the function, structure and location of the nasolacrimal duct. (4)

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

8. Name the parts of the epididymis and state the function of each. (6)

9. List the contents of the spermatic cord (9)

10. Briefly describe the lymphatic drainage and lymph nodes of the head and neck. (9)

Section B: Microscopic Anatomy (45 Marks)

1. Draw and label a mature Graafian follicle (6)

2. List the components of Olfactory epithelium. (4)

3. List the different types of cells commonly found in the epidermis and give the functions of each. (8)

4. Describe the histological anatomy of the cortex of the adrenal gland by describing the different parts, giving the class of substances produced, and an example of each of these substances. (10)

5. When performing an intra-dermal injection which SPECIFIC area of the skin does one target and identify the structures found in this site also stating their function. (6)

6. Describe the vascular layer of the eye by naming the parts and describing their location and function. (11)

Section C: Developmental Anatomy (15 Marks)

1. Describe the development of the thyroid gland **(15)**

END OF THE PAPER