



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya

Tel: +254(0) 799 529 958, +254(0) 799 529 959, + 254 (0) 712 524 293,

Website: [info@must.ac.ke](http://info@must.ac.ke) Email: [info@must.ac.ke](mailto:info@must.ac.ke)

## University Examinations 2024/2025

### FIRST YEAR FIRST SEMESTER EXAMINATION FOR DIPLOMA IN ANIMAL HEALTH AND PRODUCTION

#### AAP 2101: GROSS ANATOMY

**DATE: DECEMBER 2024**

**TIME: 2 HOURS**

#### INSTRUCTIONS:

*Answer question **ONE** and any other **TWO** questions*

#### QUESTION ONE (30 MARKS)

- a) Define the following terms as used in anatomy (5 marks)
  - i. Median plane
  - ii. Epiphysis
  - iii. Gross anatomy
  - iv. Arthrology
  - v. Myology
- b) Describe the joints of the vertebral column (5 marks)
- c) List three general classes of joints (3 marks)
- d) Discuss pulmonary circulation highlighting the structures involved (5 marks)
- e) Describe the gross appearance of a thyroid gland (5 marks)
- f) Outline;
  - i. Anatomical position of kidneys in farm animals (2 marks)
  - ii. Gross structures that make up a kidney (2 marks)
  - iii. Differences in shape seen in various farm animals (3 marks)

## **QUESTION TWO (15 MARKS)**

- a) With aid of relevant examples, discuss the classification of bones based on their appearance (10 marks)
- b) Discuss the basic plan of a vertebra (5 marks)

## **QUESTION THREE (15 MARKS)**

- a) List in order all the joints of the hind limb of the donkey starting from proximal to distal (5 marks)
- b) Differentiate between the arrangement of tarsal bones and digits of the pig and sheep (5 marks)
- c) Describe the anatomical position, structure and the parts of the bovine uterus (5 Marks)

## **QUESTION FOUR (15 MARKS)**

- a) Describe the Avian respiratory system highlighting the differences with the Mammalian system (8 marks)
- b) Differentiate between camel stomach and the stomach of a true ruminant (5 Marks)
- c) List the three layers of the heart wall (2 marks)