



MACHAKOS UNIVERSITY

University Examination For 2024/2025 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES

DEPARTMENT OF HEALTH SCIENCES

FIRST SEMESTER EXAMINATION FOR

THIRD YEAR BACHELOR OF SCIENCE IN FOOD, NUTRITION & DIETETICS

HPH 205: ANATOMY & PHYSIOLOGY OF FOOD ANIMALS

DATE: 17TH JANUARY, 2025

TIME: 2.00 PM – 4.00 PM

INSTRUCTIONS:

Answer question ONE and any other TWO questions in part B

QUESTION ONE COMPULSORY (30 MARKS)

- a) List four types of epithelial tissue (4 marks)
- b) Classify epithelial tissue based on cell shape (6 marks)
- c) Illustrate any five directional terms used in livestock (5 marks)
- d) Explain five functions of skin (5 marks)
- e) Classify vertebrae bones according to their location on the animal body (5 marks)
- f) Using a diagram, illustrate any five bones of the fore limb (5 marks)

QUESTION TWO (20 MARKS)

- a) Discuss the three types of muscle tissue (15 marks)
- b) Define the term joint (1 mark)
- c) With examples, explain two types of joints based on movement (4 marks)

QUESTION THREE (20 MARKS)

Describe ten endocrine organs and their functions in a cow

QUESTION FOUR (20 MARKS)

With the aid of a diagram, explain the main parts and functions of a monogastric animal digestive system

QUESTION FIVE (20 MARKS)

- a) Define the term organ systems as applied in animal health (2 marks)
- b) Outline any nine organ systems in mammals and name two organs in each system (18 marks)