



MURANG'A UNIVERSITY OF TECHNOLOGY
SCHOOL OF PURE AND APPLIED HEALTH SCIENCES
DEPARTMENT OF PHYSICAL AND BIOLOGICAL SCIENCES

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF

GAN104: ANIMAL PHYSIOLOGY AND ANATOMY

DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1. Answer question one and any other two questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (30 MARKS)

- a. Differentiate between the following. (4 marks)
 - i. Anatomy and physiology
 - ii. Afferent and efferent neurons
- b. Discuss briefly two disorders of the nerves system and their management. (6 marks)
- c. Explain carbon dioxide (CO₂) is transported in blood. (3 marks)
- d. Briefly describe the roles of hormones associated with the reproductive system in animals. (6 marks)
- e. Clearly illustrate how homeostasis is maintained in of animals. (6 marks)
- f. Illustrate the digestive systems of a rabbit. (5 marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

The desert ---- exhibit awesome adaptations that help it survive in the word. justify this statement. (20 marks)

QUESTION THREE (20 MARKS)

Discuss the functions of the muscular system. (20 marks)

QUESTION FOUR (20 MARKS)

Interrogate the critical role of the endocrine system in maintaining homeostasis in animals. (20 marks)