



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2024/2025

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

SCS 2100: BOTANY AND ZOOLOGY

DATE: JANUARY 2025

TIME: 1½ HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Differentiate between monocot and dicot plant (4 marks)
 - i. Phloem (1 marks)
 - ii. Xylem (1 marks)
- b) State four functions of a stem (4 marks)
- c) Highlight four characteristics of phylum Mollusca (4 marks)
- d) State four features of sponges (4 marks)
- e) Differentiate between autotrophs and heterotrophs (2 marks)
- f) State four features of phylum Aschelminthes (4 marks)
- g) Explain the difference between parenchyma and collenchyma tissues (2 marks)

QUESTION TWO (15 MARKS)

- a) Discuss characteristics of Arthropoda (5 marks)
- b) Discuss different classes in Arthropoda (10 marks)

QUESTION THREE (15 MARKS)

- a) Draw and explain 5 internal structures of dicot seed (10 marks)
- b) Discuss 5 methods of seed and fruit dispersal (5marks)

QUESTION FOUR (15MARKS)

- a) Explain 5 characteristics of mammals (5 marks)
- b) Discuss classification of animal kingdom (10 marks)