



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2024/2025

FIRST YEAR FIRST SEMESTER EXAMINATION FOR CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

AAP 1105: BASIC BOTANY AND ZOOLOGY

DATE: JANUARY 2025

TIME: 1½ HOURS

INSTRUCTIONS:

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

QUESTION ONE (30 MARKS)

- a) Define the following
 - i. Zoology (1 Mark)
 - ii. Mitochondria (1 Mark)
 - iii. Seed dormancy (1 Mark)
 - iv. Cell division (1 Mark)
- b) State the significances of mitosis (5 Marks)
- c) List the functions of plant root system (4 Marks)
- d) Differentiate between the two types of germination (3 Marks)
- e) List five functions of stem (5 Marks)
- f) State three types of leaf margins (3 Marks)
- g) State two functions of chromosomes (2 Marks)
- h) State four parts of a typical leaf (4 Marks)

QUESTION TWO (15 MARKS)

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- (a) State the causes of seed dormancy (5 Marks)
- (b) Differentiate between an animal cell and a plant cell (10 Marks)

QUESTION THREE (15 MARKS)

- (a) List the characteristics of phylum Arthropoda (4 Marks)
- (b) State the importance of botany in relation to animal health and production course (5 Marks)
- (c) Describe the modifications of roots (6 Marks)

QUESTION FOUR (15 MARKS)

Describe the stages of mitosis (15 Marks)