



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2023/2024

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN AGRICULTURE

AAC 1203: BOTANY

DATE: DECEMBER 2023

TIME: 1.5 HOURS

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

QUESTION ONE (30 MARKS)

- a) Botany is divided into a number of branches, name five branches. (5 marks)
- b) List the five sub-groups of the plant kingdom. (5 marks)
- c) What is ICBN? (1 mark)
- d) What is the work of ICBN? (2 marks)
- e) Explain the adaptations that allow plants to thrive in the following environments:
 - i. Aquatic (3 marks)
 - ii. Desert (3 marks)
- f) Explain five external structures of plants (10 marks)
- g) Define Botany. (1 mark)

QUESTION TWO (15MARKS)

- a) State the ICBN principles (3 marks)
- b) Discuss the importance of plants to the economy of the country. (10 marks)
- c) What is photosynthesis? (2 marks)

QUESTION THREE (15 MARKS)

- a) Discuss Charles Darwin's theory of Natural selection (8 marks)
- b) Discuss the various evidences of evolution (7 Marks)

QUESTION FOUR (15 MARKS)

- a) Differentiate between mitosis and Meiosis (10 marks)
- b) Discuss the process of DNA replication. (5 marks)