



UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DIPLOMA IN WILDLIFE ENTREPRISES AND
MANAGEMENT**

BOTA 0141: PLANT TAXONOMY

STREAMS: DWLM

0TIME: 2 HOURS

DAY/DATE: WEDNESDAY 23/04/2025

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS

- **Answer all questions in section A and any two in section B**
- **Do not write on question paper**

SECTION A: 30 MARKS

1. Define the following terms:

- a) Taxonomy (2 marks)
- b) Binomial nomenclature (2 marks)
- c) Phylogeny (2 marks)

2. Explain the differences between monocots and dicots. (4 marks)

3. Describe the Linnaean system of classification. Why is it important in plant taxonomy? (4 marks)

4. Briefly discuss the role of herbaria in plant taxonomy. (4 marks)

5. Using a family plant of your choice. Describe its key characteristics and provide examples of species within this family. (4 marks)

6. What is a type specimen? Explain its significance in plant taxonomy. (4 marks)

7. Briefly discuss the principles and criteria for priority in botanical nomenclature. (4 marks)

SECTION B (40 MARKS)

8. Discuss the major plant divisions in the plant kingdom and their key characteristics (20 marks)

9. a). Explain the concept of cladistics. (10 marks)

b). How is it used in plant taxonomy? (10 marks)

10. a). Discuss the impact of molecular techniques on plant taxonomy. (10 marks)

b). In herbarium specimen preparation, state and explain the basic level Information to be in place (10 marks)