



**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF ENVIRONMENTAL SCIENCE**

**DEPARTMENT OF FOREST RESOURCES AND WILDLIFE MANAGEMENT**

**PLANT SYSTEMATICS & FIELD IDENTIFICATION (EFW 2203)**

**Main Examination Paper**

**March 2025**

This examination paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: None

Examiner's Name: Dr. E. Mufandaedza

External Examiner: Prof. E. Chivandi

**INSTRUCTIONS**

1. Answer **QUESTION ONE** and any **THREE** others
2. Each question carries 25 marks
3. Use of calculators and statistical tables is permissible

**MARK ALLOCATION**

<b>QUESTION</b>	<b>MARKS</b>
1.	25
2.	25
3.	25
4.	25
5.	25
6.	25
<b>TOTAL</b>	<b>100</b>

1. Discuss in detail the plant collection, labelling, preparation and storage procedures that are applied in plant taxonomy.
2. Using an example of your choice, explain hierarchical classification as applied in plant Taxonomy.
3. Describe the concept of plant systematics and the rules governing the naming of plant species.
4. Explain how ecological factors influence plant distribution and identification.
5. Describe the limitations of using herbarium specimens in plant systematics.
6. (a) Explain the concept of a "type specimen" and its role in plant nomenclature. **[15 marks]**  
(b) Explain how the phylogenetic methods relate in the classification and identification of plant species. **[10 marks]**