

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**



**FACULTY OF ENVIRONMENTAL SCIENCE**

**DEPARTMENT OF FOREST RESOURCES AND WILDLIFE MANAGEMENT**

**INTRODUCTION TO FORESTRY (EFW 1201)**

**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 A. Chichinye

External Examiner: Prof. E. Chivandi

**INSTRUCTIONS**

1. Answer **QUESTION ONE** and any **THREE** others
2. Each question carries 25 marks

**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. Describe in detail the characteristics of woodland and forest ecosystems.
2. Discuss the procedures involved in the determination of volume of 5 standing trees and their logs after cutting.
3. Using diagrams fully explain the following processes:
  - (i) grafting. **[15 marks]**
  - (ii) pricking out. **[5marks]**
  - (iii) hardening off. **[5marks]**
4. With the aid of examples, explain fully the impacts of plant diseases on forests and woodland ecosystems.
5. With the aid of diagrams, explain any TWO nursery systems citing their advantages and disadvantages.
6. (a) Using a clearly labelled diagram, describe all the components of a nursery. **[15marks]**
  - (b) Fully explain factors that influence the location of a nursery. **[10marks]**