



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF ENVIRONMENTAL SCIENCE

DEPARTMENT OF FOREST RESOURCES AND WILDLIFE MANAGEMENT

SILVICULTURE (EFW 4108)

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.

MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3.	25
4.	25
5.	25
6.	25
TOTAL	100

1. Describe the key contributions of silviculture to environmental conservation in promoting sustainable management of forest ecosystems.
2. Critically examine the ecological consequences of clear-cutting and how they can be mitigated.
3. Evaluate the importance of silviculture to Zimbabwe's economic development.
4. Discuss the challenges of implementing sustainable silvicultural practices.
5. Explain the effects of thinning on the structural composition of forest stands
6. Discuss the benefits and challenges of adopting agroforestry systems in silviculture