

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY



FACULTY OF ENVIRONMENTAL SCIENCE

DEPARTMENT OF FOREST RESOURCES AND WILDLIFE MANAGEMENT

FOREST HARVESTING AND UTILIZATION (EFW 4203)

Main Examination Paper

December 2024

This Examination Paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: NIL

Internal Examiner: Dr A. Chichinye

External Examiner: Prof. E. Chivandi

INSTRUCTIONS

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

MARK ALLOCATION

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

1. Explain fully the timber harvesting process. **[25 marks]**
2. Giving examples, explain fully ground skidding methods and their effects on residual vegetation and soils. **[25 marks]**
3. With the aid of diagrams, explain fully the strategic harvesting plan and the tactical harvesting plan. **[25 marks]**
4. Discuss how you would carry out an EIA and an environmental audit for a timber harvesting operation in an indigenous forest. **[25 marks]**
5. Describe in detail how you would carry out a forest inventory of any indigenous woodland of your choice. **[25 marks]**
6. Discuss the principles of Reduced Impact Logging and their importance in timber harvesting operations. **[25 marks]**