



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF ENVIRONMENTAL SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCE

**BACHELOR OF SCIENCE HONOURS DEGREE IN ENVIRONMENTAL SCIENCE AND
HEALTH**

INTRODUCTION TO ECOLOGY

ESH 1107

Final Examination Paper

December 2024

This examination paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: None

Examiner's Name:

INSTRUCTIONS

1. Answer any **FOUR** questions
2. Each question carries 25 marks

MARK ALLOCATION

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

Question 1

Describe the exponential and logistic growth models, stating assumptions for each.

Question 2

Describe the three (3) general types of survivorship curves which can be produced from both time specific and age-specific life tables.

Question 3

Explain the factors that reduce genetic variation in populations.

Question 4

Explain the characteristics of the Savanna Biome.

Question 5

Discuss the factors that determine reproductive success of a species.

Question 6

Discuss the effects of habitat fragmentation in ecological systems.