



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF ENVIRONMENTAL SCIENCE

DEPARTMENT OF ENVIRONMENTAL SCIENCE

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

ENVIRONMENTAL AND HEALTH EDUCATION

ESH 1211

Final Examination Paper

March 2025

This examination paper consists of 3 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: None

Examiner's Name: Dr N Manyeruke

INSTRUCTIONS

1. Answer any FOUR (4) 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

Explain the seven steps of the Participatory Health and Sanitation Transformation (PHAST) approach. (21)

Explain two factors that you would consider when selecting a health education strategy. (4)

Question 2

Compare and contrast between the following:

- a) Captive and non-captive audiences. (12)
- b) Needs Assessment and Evaluation. (13)

Question 3

a) Explain the uses of the following tools when in the field running an environmental and health education programme:

- i. Malaria Tool (2)
- ii. Sanitation Ladder (2)
- iii. Water Ladder (2)
- iv. Story With a Gap (SWAG) (2)
- v. Bilharzia tool (2)

b) Justify the need for participatory methods in health education. (15)

Question 4

Discuss the factors that may hinder effective communication when running an environmental and health education programme.

Question 5

Evaluate the principles behind the following education strategies as they relate to health education:

- a) Neo-classical (8)
- b) Liberal humanist (8)
- c) Social critical (9)

Question 6

Ward 4 is a rural community in Binga District experiencing high incidence of Malaria. Binga District Council approaches you to help them run a malaria education programme in the ward. Justify the steps that you would take to implement your health education programme to address this problem.