



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF ENVIRONMENTAL SCIENCE

DEPARTMENT OF ENVIRONMENTAL HEALTH

MASTER OF SCIENCE IN ENVIRONMENTAL HEALTH

CLIMATE AND ENVIRONMENTAL CHANGE

EEH 6102

Examination Paper

October 2024

This examination paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: None

Examiner's Name: Mr Gumbo N

INSTRUCTIONS

1. Answer **QUESTION 1** and any **other Three** questions
2. Question 1 carries 40 marks and questions 2 to 6 carry 20 marks each.

MARK ALLOCATION

QUESTION	MARKS
1.	40
2.	20
3.	20
4.	20
5.	20
6.	20
TOTAL	100

QUESTION ONE

Through the integration of climate and environmental change with other issues, and in particular energy production, climate change financing, invasive species, shift of vector boundaries, marginalised communities, which find their causes in the deeply embedded mistrust, can be circumvented to a considerable extent. In particular the demand of climate and environmental change justiciability which has become a discourse at global level. Accredited this assertion. **(40 marks)**

QUESTION TWO

With reference to the field excursion, explore the forms of indigenous knowledge in predicting and adapting to extremities in climate and environmental change by community members at Mashaba communal area in Gwanda South. **(20 marks)**

QUESTION THREE

There is considerable confidence that climate models provide credible quantitative estimates of future climatic change, particularly at continental scales and above. Discuss. **(20 marks)**

QUESTION FOUR

With reference to sustainable strategies in reducing the carbon footprint, explore the pragmatic options that can be used at the National University of Science and Technology in its totality. **(20 marks)**

QUESTION FIVE

Dissect the correlation between climate change and human health. **(20 marks)**

QUESTION SIX

Discuss how measurement campaigns can be simulated in line with global aerosol distributions in comparison to Advanced Very High-Resolution Radar (AVHRR), Moderate Resolution Imaging Spectroradiometer (MODIS) and Total Ozone Mapping Spectrometer (TOMS). **(20 marks)**