



GWANDA STATE UNIVERSITY
FACULTY OF ENGINEERING AND ENVIRONMENT
DEPARTMENT OF GEOMATICS AND SURVEYING
Techniques in Geography and Environmental Science
GES 1102

Final Main Examination Paper

June 2023

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: None
Examiner's Name: MR. V. NCUBE

INSTRUCTIONS

The paper consists of Six Questions.

SECTION A is Compulsory. Choose any **THREE** Questions from **SECTION B**

Copyright: Gwanda State University

SECTION A

Question 1

- a) Define the following terms
 - i) Remote Sensing (2)
 - ii) Runoff (2)
 - iii) Hydrological cycle (2)
 - iv) Environmental Sustainability (2)
- b) With aid of examples, explain the following;
 - i) Community/Ecosystem diversity (2)
 - ii) Species diversity (2)
 - iii) Genetic diversity (2)
- c) What is Map Projection (2)
- d) Distinguish between weathering and erosion (4) [20]

Question 2

- a) Explain any **FIVE** of the following terms or concepts **BRIEFLY**
 - i) The Big Bang Theory
 - ii) Aquifer
 - iii) Ground Water Table
 - iv) Troposphere
 - v) The Ozone Layer
 - vi) Shield Volcano (10)
- b) Explain the role and significance of the Ozone layer (5)
- c) Using examples, explain what feminization of migration entails (5) [20]

SECTION B

Question 3

Discuss how human activities threaten wetlands as an ecosystem [20]

Question 4

Using examples discuss the advantages and disadvantages of a youthful population in a country [20]

Question 5

- a) Differentiate between Global and Local Environmental problems (10)
- b) Using examples discuss any five factors affecting biodiversity (10) [20]

Question 6

- a) Identify and explain any five causes of deforestation (10)
- b) What are the consequences or impacts of deforestation (10) [20]

END OF PAPER