UNIVERSITY OF SWAZILAND

DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING

FINAL EXAMINATION, MAY 2015

TITLE OF PAPER

: ENVIRONMENTAL GEOMORPHOLOGY

COURSE NUMBER

: ERM 624

TIME ALLOWED

: 3 hours

INSTRUCTIONS

: ANSWER ANY TWO QUESTIONS

ILLUSTRATE YOUR ANSWERS

WITH APPROPRIATE DIAGRAMS

MARKS ALLOCATED

: EACH QUESTION CARRIES 50 MARKS

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

ANSWER ANY TWO QUESTIONS

QUESTION 1:

a) Discuss which long-term climatic changes are expected for the southern African region, and how these may impact on agricultural production in Swaziland.

(25 marks)

b) Evaluate the efforts currently undertaken, and how effective these may be for the maintenance of the current climatic conditions in southern Africa.

(25 marks)

(50 MARKS)

QUESTION 2:

a) Discuss the term "Geosite", and distinguish it from terms like "Game Reserves", "National Parks" and "Heritage Sites".

(25 marks)

b) Using examples discuss how geosites may contribute to incomegenerating effects at their respective locations and the overall revenue of a country.

(25 marks)

(50 MARKS)

QUESTION 3:

a) Critically evaluate the importance of Banded Iron Formation (BIF) as an ore deposit, that has played historically an important role in Swaziland's infrastructure and economic development.

(25 marks)

b) Explain why the production of iron ore from Ngwenya was successfully carried out in the 1960s and 1970s, then abruptly stopped for about 4 decades, and since about 3 years has been reintroduced.

(25 marks)

(50 MARKS)

QUESTION 4:

Using examples from Swaziland, discuss how you would restore a former mining area considering the environmental damages that have altered this area during the period of mining activities.

(50 MARKS)