

**UNIVERSITY OF SWAZILAND**

**DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND  
PLANNING**

**FINAL EXAMINATION: MAY 2013**

**TITLE OF PAPER : Physical Resources**

**COURSE NUMBER : GEP 216**

**TIME ALLOWED : 3 hours**

**INSTRUCTIONS : SECTION A IS COMPULSORY  
ANSWER ANY TWO QUESTIONS  
FROM SECTION B  
ILLUSTRATE YOUR ANSWERS WITH  
APPROPRIATE DIAGRAMS WHERE  
NECESSARY**

**MARKS ALLOCATED : QUESTION 1 CARRIES 40 MARKS.  
THE OTHER QUESTIONS CARRY  
30 MARKS EACH  
TOTAL: 100 MARKS**

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

## SECTION A: COMPULSORY QUESTION

### QUESTION 1:

Discuss how the concept of Plate Tectonics contributes to explain our current understanding of the Earth

- (i) In a geographical and historical context (14 marks)
  - (ii) In an economic context (13 marks)
  - (iii) In a biological context (13 marks)
- 40 marks**

## SECTION B: ANSWER ANY TWO QUESTIONS

### QUESTION 2:

Describe how climate change may influence some renewable resources of Swaziland.  
**30 marks**

### QUESTION 3:

- (i) Define the term "Banded Iron Formation" (6 marks)
  - (ii) Explain under which conditions this rock type was deposited during the geological past and where it may be found in Swaziland. (12 marks)
  - (iii) Explain why this resource is economically important for Swaziland. (12 marks)
- 30 marks**

### QUESTION 4:

Discuss why globally increasing temperatures are a risk for human beings, and why therefore the present climatic conditions should be maintained.

**30 marks**

**QUESTION 5:**

Using one example from each, describe sedimentary, igneous and metamorphic rocks that yield specific physical resources. For each, specify the resources and their value for the respective country.

**30 marks**