

**UNIVERSITY OF SWAZILAND**

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

**FINAL EXAMINATION (SUPPLEMENTARIES): JULY 2013**

<b>TITLE OF PAPER</b>	<b>:</b>	<b>Physical Resources</b>
<b>COURSE NUMBER</b>	<b>:</b>	<b>GEP 216</b>
<b>TIME ALLOWED</b>	<b>:</b>	<b>3 hours</b>
<b>INSTRUCTIONS</b>	<b>:</b>	<b>SECTION A IS COMPUSORY ANSWER ANY TWO QUESTIONS FROM SECTION B ILLUSTRATE YOUR ANSWERS WITH APPROPRIATE DIAGRAMS WHERE NECESSARY</b>
<b>MARKS ALLOCATED</b>	<b>:</b>	<b>QUESTION 1 CARRIES 40 MARKS THE OTHER QUESTIONS CARRY 30 MARKS EACH TOTAL MARKS: 100</b>

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

## SECTION A: COMPULSORY QUESTION

### QUESTION 1:

Discuss how to manage the following physical resources sustainably in Swaziland:

- (i) Water (15 marks)
  - (ii) Ore deposits (15 marks)
  - (iii) National Parks and Game Reserves (10 marks)
- 40 marks**

## SECTION B: ANSWER ANY TWO QUESTIONS

### QUESTION 2:

- (I) Describe the weathering and erosion events which the Highveld and the Lowveld of Swaziland are prone to (15 marks)
  - (II) Give a short overview of the different landforms that occur in Swaziland and characterize the respective climatic and geomorphologic processes responsible. (15 marks)
- 30 marks**

### QUESTION 3:

- (I) Outline the properties of igneous rocks found in Swaziland. (15 marks)
  - (II) Discuss where in Africa recent volcanism has been recorded, and what benefit may be derived from it. (15 marks)
- 30 marks**

**QUESTION 4:**

- (I) Describe the dangers of greenhouse gases. Mention should be made of the three most important ones, highlighting their common origins.

(15 marks)

- (II) Discuss tasks that are necessary in your view to reduce the further worldwide increase of these gases.

(15 marks)

**30 marks**

**QUESTION 5:**

Using appropriate examples describe in detail three of the renewable resources of Swaziland that are currently under strong environmental threat. For each, outline the resource, the nature of the threat and how this should be managed.

**30 marks**