

**UNIVERSITY OF SWAZILAND**

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

**SUPPLEMENTARY EXAMINATION (2011/2012)**

**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**

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

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

## SECTION A: COMPULSORY QUESTION

### QUESTION 1:

- (a) Describe examples from sedimentary, igneous and metamorphic rock types  
(20 marks)
- (b) Discuss their respective economic mineral resources.  
(20 marks)
- [40 Marks]**

## SECTION B: ANSWER ANY TWO QUESTIONS

### QUESTION 2:

Discuss and evaluate the measures that have to be undertaken to reduce the further worldwide increase of greenhouse gases.

**[30 Marks]**

### QUESTION 3:

Discuss why renewable resources in a long term are economically more profitable than non-renewable resources.

**[30 Marks]**

### QUESTION 4:

Using examples from Swaziland discuss and distinguish between economic profitability and environmental suitability when evaluating a certain area for arable land use.

**[30 Marks]**

### QUESTION 5:

Discuss and evaluate the most significant impacts of erosion and weathering in Swaziland

**[30 Marks]**