

UNIVERSITY OF SWAZILAND

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

SUPPLEMENTARY EXAMINATION

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 YOURS ANSWERS
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

Discuss how physical resources of Swaziland have contributed to the economic growth of the country in the following sectors:

- (i) In the mining industry (14 marks)
 - (ii) In national parks and game reserves (13 marks)
 - (iii) In ground water management (13 marks)
- (40 marks)**

SECTION B: ANSWER ANY TWO QUESTIONS

QUESTION 2:

Using examples describe sedimentary, igneous and metamorphic rocks that yield specific physical resources. (30 marks)

QUESTION 3:

- (i) Describe the dangers of greenhouse gases. (15 marks)
 - (ii) Discuss tasks that are in your view necessary to reduce their further worldwide increase. (15 marks)
- (30 marks)**

QUESTION 4:

- (i) Using examples identify lakes in East Africa that are characterized by an abnormally high salinity and alkalinity. (10 marks)
- (ii) Explain why this specific composition exists. (10 marks)

(iii) Discuss under which conditions these lakes were formed. (10 marks)
(30 marks)

QUESTION 5:

Highveld and Lowveld in Swaziland. Outline the weathering and erosion events that are typical for each of these geomorphological units. (30 marks)