UNIVERSITY OF SWAZILAND DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING SUPPLEMENTARY EXAMINATION, JULY 2008 (BAH, BED, BASS)

TITLE OF PAPER:

PHYSICAL RESOURCES

COURSE CODE:

GEP 216

TIME ALLOWED:

THREE HOURS

INSTRUCTIONS:

ANSWER QUESTION ONE AND

ANY TWO QUESTIONS FROM

SECTION B

MARKS ALLOCATED:

QUESTION 1 CARRIES 40

MARKS. THE OTHER

QUESTIONS CARRY 30 MARKS

EACH

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

SECTION A

QUESTION 1 (COMPULSORY)

a. Explain the various factors which influence highland climates highlighting how these climates differ from that in the Mid-, High-, and Low-latitudes.

(20 marks)

b. Describe how convection currents in the asthenosphere result in the formation of the following:

i.	New tectonic plates	(5 marks)
ii.	Sea Floor spreading	(5 marks)
iii.	Linear fold mountains	(5 marks)
ίv.	Batholiths	(5 marks)

(40 marks)

SECTION B

ANSWER ANY TWO QUESTIONS

QUESTION 2

a. Discuss the factors that determine the rate of weathering of rocks.

(10 marks)

b. Using examples, describe the processes involved in mechanical weathering of rocks and the various landforms produced. (20 marks)

30 marks)

QUESTION 3

Describe the following mass wasting processes stating measures that could be taken to reduce their occurrence.

a.	Landslides	(6 marks)
b.	Mudflows	(6 marks)
C.	Soil creep	(6 marks)
d.	Avalanches	(6 marks)
e.	Earth flow	(6 marks)

(30 marks)

QUESTION 4

Discuss the factors that are responsible for the occurrence of different climates in different regions. (30 marks)

QUESTION 5

Discuss the factors responsible for the modification of air masses as they move from their point of origin. (30 marks)