

**UNIVERSITY OF SWAZILAND
DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE
AND PLANNING
FINAL EXAMINATION, MAY 2007**

TITLE OF PAPER: PHYSICAL RESOURCES

COURSE CODE: GEP 216

TIME ALLOWED: THREE HOURS

**INSTRUCTIONS: ANSWER QUESTION ONE AND
ANY OTHER TWO QUESTIONS**

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

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GRANTED BY THE INVIGILATOR**

SECTION A

QUESTION 1 (COMPULSORY)

- a. Discuss the various pieces of evidence brought forward by Alfred Wegener to support his theory of continental Drift. [15 marks]
- b. Describe how convection currents in the asthenosphere results in the formation of the following
- i. New tectonic plates [5 marks]
 - ii. Rift valleys [5 marks]
 - iii. Linear fold mountains [5 marks]
 - iv. Batholiths [5 marks]
 - v. Strike-slip faults [5 marks]

[40 marks]

SECTION B

ANSWER ANY TWO QUESTIONS

QUESTION 2

Discuss the three main categories of rocks and describe the different environmental conditions under which each is formed. [30 marks]

QUESTION 3

Using appropriate examples, describe how climate has affected weathering processes in the different latitudes. [30 marks]

QUESTION 4

You are employed as a meteorologist to set up a weather station at Kwaluseni.

- a. State the instruments that you would install. [5 marks]
- b. Explain the use of each instrument and how the readings obtained from it can be used. [25 marks]

[30 marks]

QUESTION 5

- a. Using a well labeled diagram, illustrate the various temperature strata of the atmosphere [15 marks]
- b. Explain why the earth experiences differences in rainfall [15 marks]
- [30 marks]**